

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120718\
 Data File : VD060513.D
 Acq On : 7 Dec 2018 12:53
 Operator : VA/AP
 Sample : J6269-01
 Misc : 5.67g/5ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 OILY-SOIL

Quant Time: Dec 08 02:05:29 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 06 01:49:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.39	168	32801	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	7.44	114	49404	50.00	ug/l	-0.02
63) Chlorobenzene-d5	11.27	117	41822	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.36	152	28233	50.00	ug/l	-0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.77	65	18638	80.17	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	160.34%	
35) Dibromofluoromethane	6.30	113	16698	46.02	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	92.04%	
50) Toluene-d8	9.44	98	45574	43.40	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	86.80%	
62) 4-Bromofluorobenzene	12.42	95	27064	72.03	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	144.06%	

Target Compounds

						Qvalue
3) Chloromethane	1.79	50	1880	5.578	ug/l #	43
5) Bromomethane	2.20	94	2972	44.168	ug/l #	65
10) Methyl Iodide	3.28	142	1081	4.589	ug/l #	78
13) Acrolein	3.00	56	204	19.766	ug/l #	11
14) Allyl chloride	3.51	41	540	1.736	ug/l #	81
15) Acrylonitrile	4.07	53	201	3.748	ug/l #	15
16) Acetone	3.16	43	16007	429.527	ug/l #	89
18) Methyl Acetate	3.56	43	2367	26.725	ug/l #	64
20) Methylene Chloride	3.74	84	1525	Below Cal	#	74
23) Vinyl Acetate	4.80	43	1666	3.011	ug/l #	80
25) 2-Butanone	5.62	43	8569	116.874	ug/l #	59
29) Tetrahydrofuran	6.35	42	24646	593.612	ug/l #	40
30) Chloroform	6.05	83	933	1.596	ug/l #	17
31) Cyclohexane	6.35	56	38935	80.839	ug/l #	82
36) 1,1-Dichloropropene	6.38	75	1812	3.752	ug/l #	41
37) Ethyl Acetate	5.62	43	8569	40.915	ug/l #	68
38) Carbon Tetrachloride	6.39	117	2197	5.068	ug/l #	12
39) Methylcyclohexane	8.03	83	96054	174.481	ug/l	99
40) Benzene	6.79	78	48283	39.121	ug/l	98
41) Methacrylonitrile	5.91	41	208	1.842	ug/l #	33
42) 1,2-Dichloroethane	6.87	62	422	1.345	ug/l	73
43) Isopropyl Acetate	8.30	43	532	2.058	ug/l #	49
47) Bromodichloromethane	8.48	83	5058	12.087	ug/l #	24
48) Methyl methacrylate	8.28	41	11374	74.354	ug/l #	77
51) 4-Methyl-2-Pentanone	9.32	43	3926	24.413	ug/l #	42
52) Toluene	9.53	92	393390	509.974	ug/l	98
55) 1,1,2-Trichloroethane	10.09	97	11055	51.462	ug/l #	20
56) Ethyl methacrylate	10.08	69	5641	29.015	ug/l #	1
59) 2-Hexanone	10.43	43	18470	164.314	ug/l #	30
65) Chlorobenzene	11.30	112	1022	1.155	ug/l #	42
67) Ethyl Benzene	11.41	91	243340	161.242	ug/l	94
68) m/p-Xylenes	11.55	106	707685	1267.525	ug/l	95
69) o-Xylene	11.92	106	402146	755.797	ug/l	94
70) Styrene	11.92	104	19240	22.528	ug/l #	1

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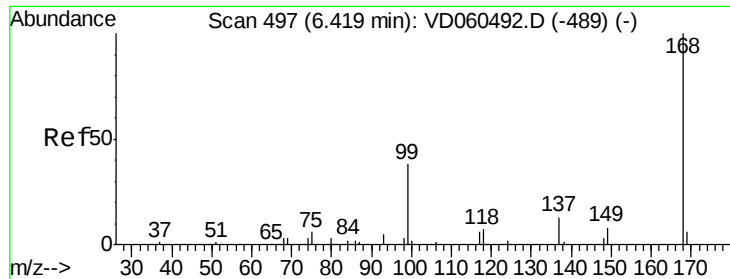
Instrument :
 MSVOA_D
 ClientSampleId :
 OILY-SOIL

Quant Time: Dec 08 02:05:29 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

73) Isopropylbenzene	12.27	105	58151	29.107	ug/l	99
74) N-amyl acetate	12.19	43	21452	44.428	ug/l #	41
75) 1,1,2,2-Tetrachloroethane	12.58	83	6139	19.194	ug/l #	90
76) 1,2,3-Trichloropropane	12.62	75	1092	3.414	ug/l #	1
78) n-propylbenzene	12.63	91	274094	108.531	ug/l	98
79) 2-Chlorotoluene	12.70	91	237150	173.050	ug/l #	41
80) 1,3,5-Trimethylbenzene	12.78	105	834519	546.649	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.42	75	8092	90.696	ug/l #	31
82) 4-Chlorotoluene	12.78	91	84768	55.073	ug/l #	40
83) tert-Butylbenzene	13.08	119	362339	211.686	ug/l #	66
84) 1,2,4-Trimethylbenzene	13.08	105	3134015	1982.659	ug/l	99
85) sec-Butylbenzene	13.08	105	3134015	1469.022	ug/l #	63
86) p-Isopropyltoluene	13.33	119	54716	32.354	ug/l	93
87) 1,3-Dichlorobenzene	13.30	146	1891	1.989	ug/l #	1
88) 1,4-Dichlorobenzene	13.38	146	2293	2.458	ug/l #	49
89) n-Butylbenzene	13.62	91	359266	Below Cal	#	1
90) Hexachloroethane	13.89	117	86636	204.320	ug/l #	8
91) 1,2-Dichlorobenzene	13.66	146	1392	1.791	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	14.22	75	6493	167.540	ug/l #	24
93) 1,2,4-Trichlorobenzene	14.78	180	3677	6.053	ug/l #	1
94) Hexachlorobutadiene	14.87	225	640	1.428	ug/l #	19
95) Naphthalene	14.96	128	1749755	2421.331	ug/l	100
96) 1,2,3-Trichlorobenzene	15.10	180	3581	7.399	ug/l #	1

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.39 min Scan# 495

Delta R.T. -0.03 min

Lab File: VD060513.D

Acq: 7 Dec 2018 12:53

Instrument :

MSVOA_D

ClientSampleId :

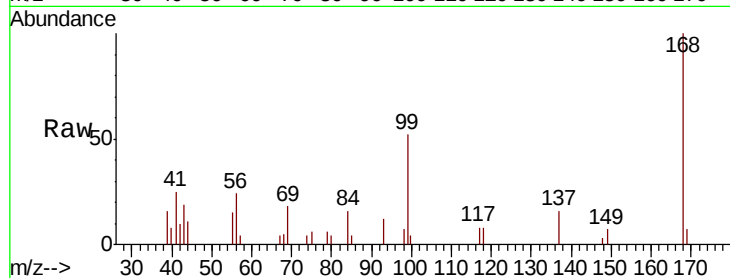
OILY-SOIL

Tot Ion:168 Resp: 32801

Ion Ratio Lower Upper

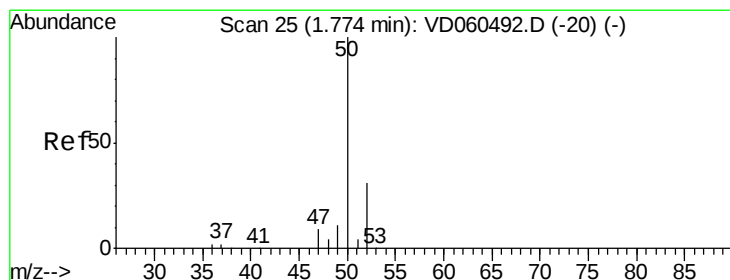
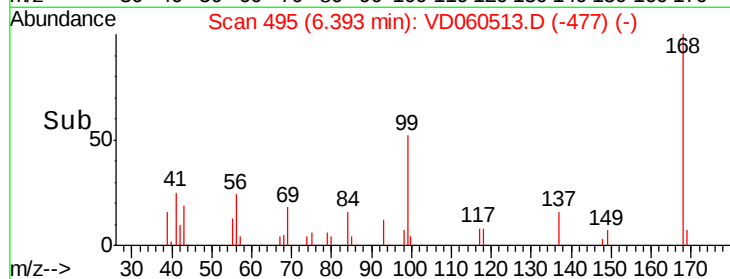
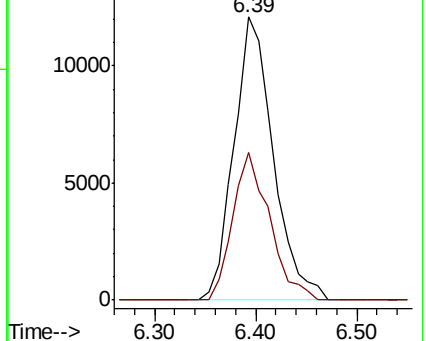
168 100

99 52.1 35.6 53.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 5.578 ug/l

RT: 1.79 min Scan# 27

Delta R.T. 0.01 min

Lab File: VD060513.D

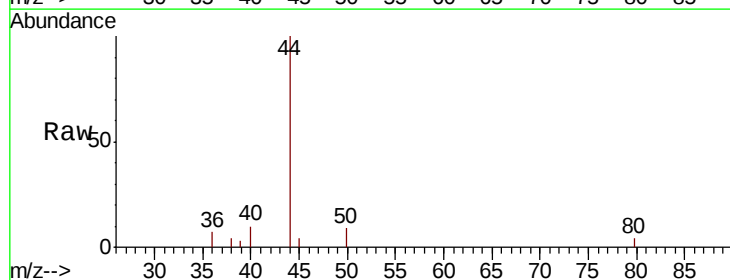
Acq: 7 Dec 2018 12:53

Tgt Ion: 50 Resp: 1880

Ion Ratio Lower Upper

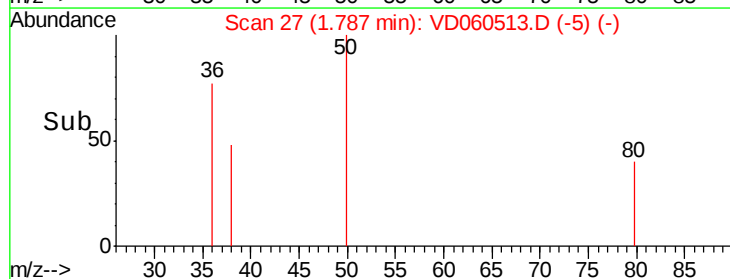
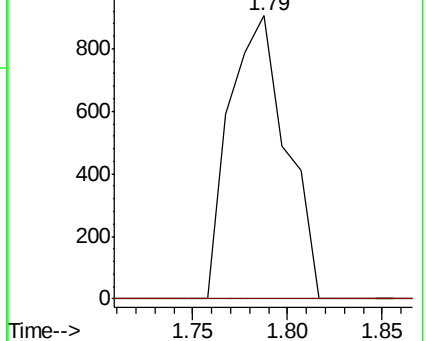
50 100

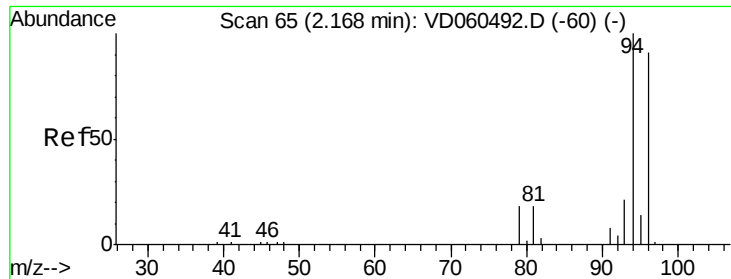
52 0.0 25.0 37.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 44.168 ug/l

RT: 2.20 min Scan# 69

Delta R.T. 0.03 min

Lab File: VD060513.D

Acq: 7 Dec 2018 12:53

Instrument :

MSVOA_D

ClientSampleId :

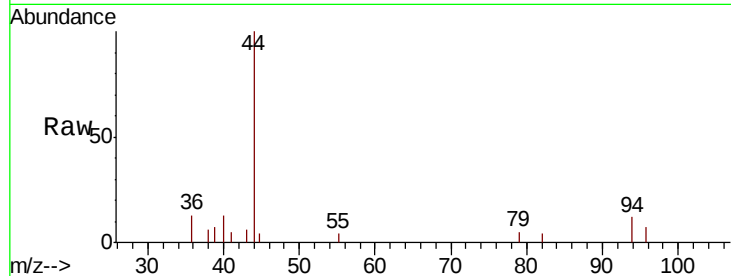
OILY-SOIL

Tot Ion: 94 Resp: 2972

Ion Ratio Lower Upper

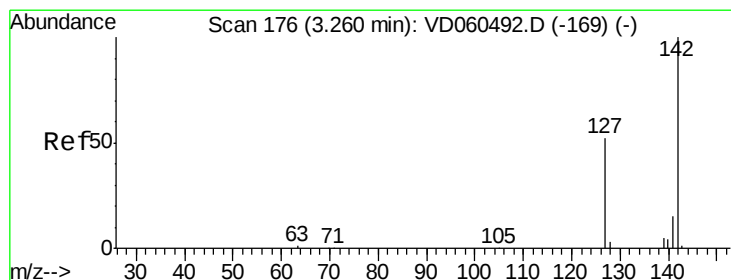
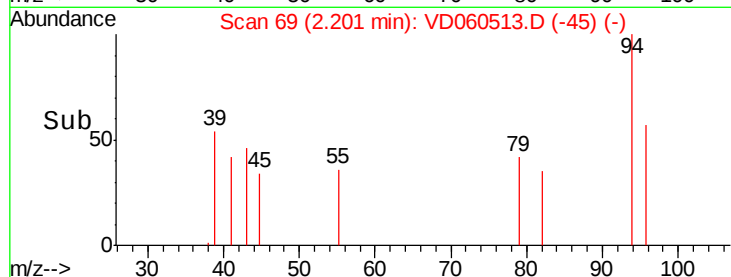
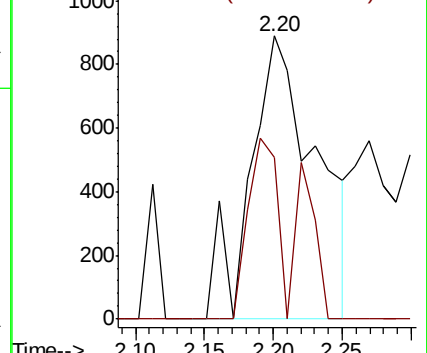
94 100

96 57.4 72.6 108.8#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#10

Methyl Iodide

Concen: 4.589 ug/l

RT: 3.28 min Scan# 179

Delta R.T. 0.02 min

Lab File: VD060513.D

Acq: 7 Dec 2018 12:53

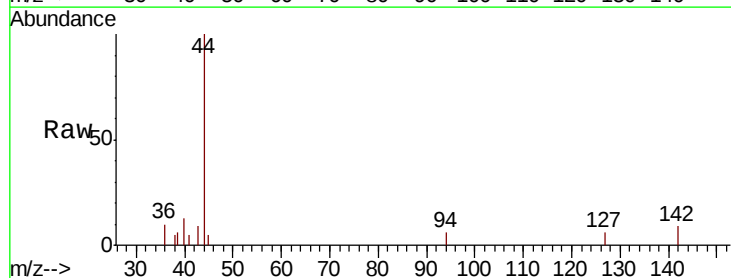
Tgt Ion:142 Resp: 1081

Ion Ratio Lower Upper

142 100

127 63.9 41.2 61.8#

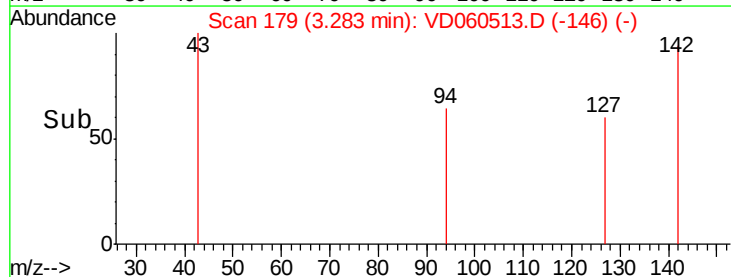
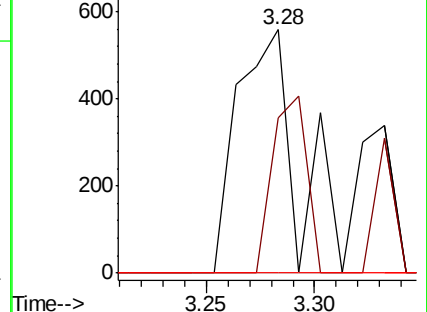
141 0.0 11.9 17.9#

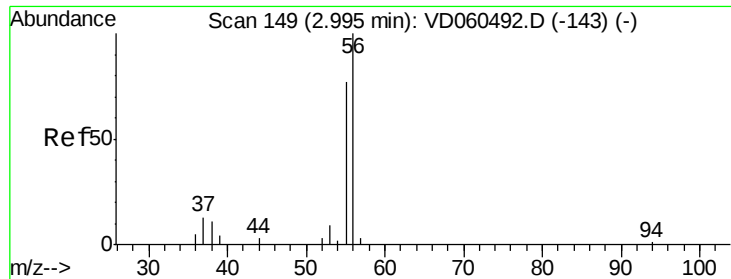


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V





#13

Acrolein

Concen: 19.766 ug/l

RT: 3.00 min Scan# 150

Delta R.T. 0.00 min

Lab File: VD060513.D

Acq: 7 Dec 2018 12:53

Instrument :

MSVOA_D

ClientSampleId :

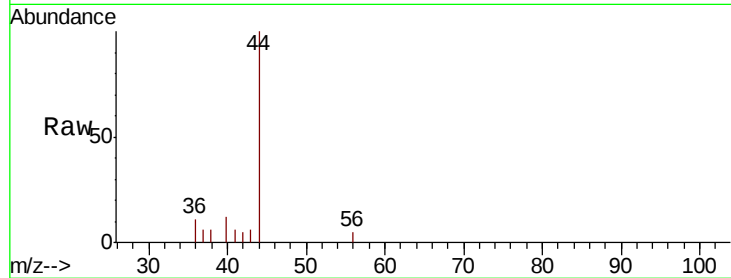
OILY-SOIL

Tot Ion: 56 Resp: 204

Ion Ratio Lower Upper

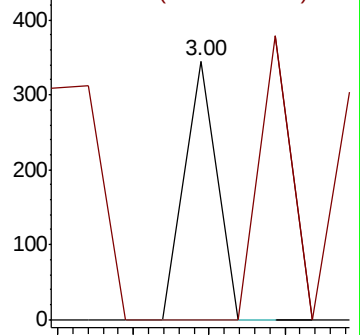
56 100

55 0.0 62.0 93.0#

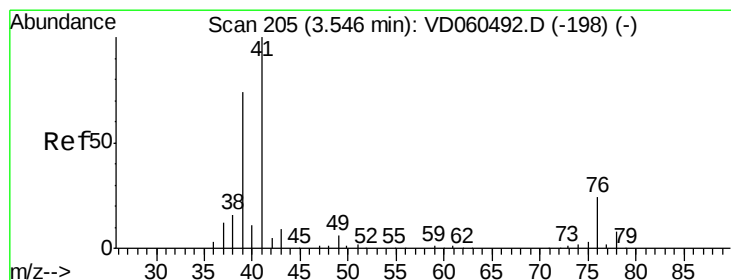
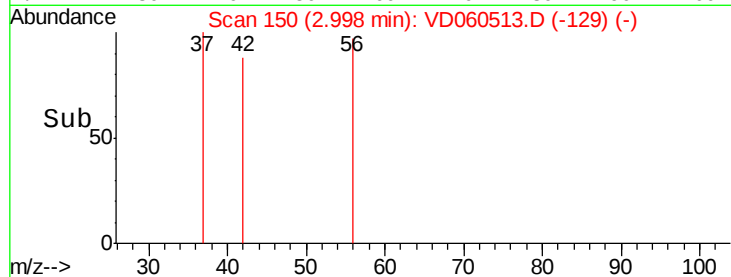


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



Time-->



#14

Allyl chloride

Concen: 1.736 ug/l

RT: 3.51 min Scan# 202

Delta R.T. -0.04 min

Lab File: VD060513.D

Acq: 7 Dec 2018 12:53

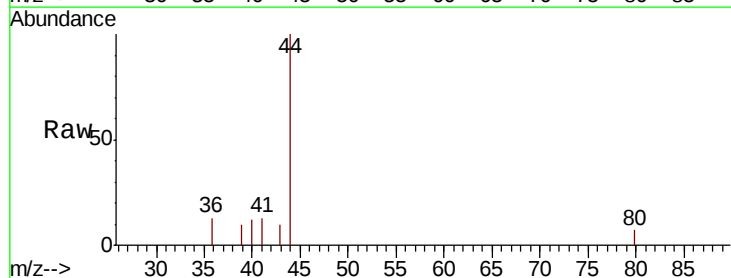
Tgt Ion: 41 Resp: 540

Ion Ratio Lower Upper

41 100

39 80.7 59.3 88.9

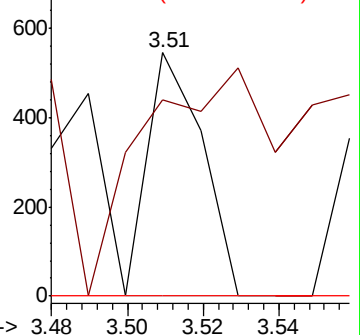
76 0.0 21.0 31.6#



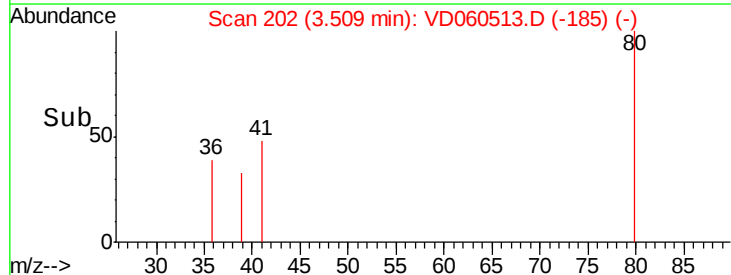
Abundance Ion 41.05 (40.75 to 41.75): VDC

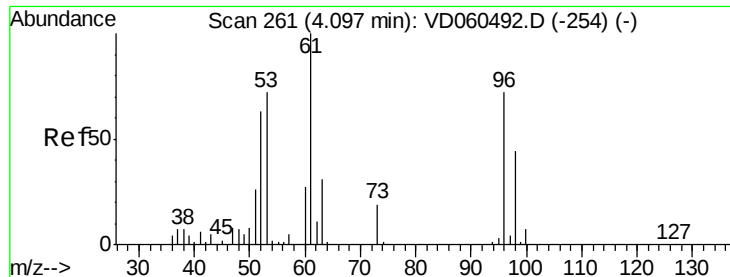
Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC



Time-->





#15

Acrylonitrile

Concen: 3.748 ug/l

RT: 4.07 min Scan# 259

Delta R.T. -0.03 min

Lab File: VD060513.D

Acq: 7 Dec 2018 12:53

Instrument :

MSVOA_D

ClientSampleId :

OILY-SOIL

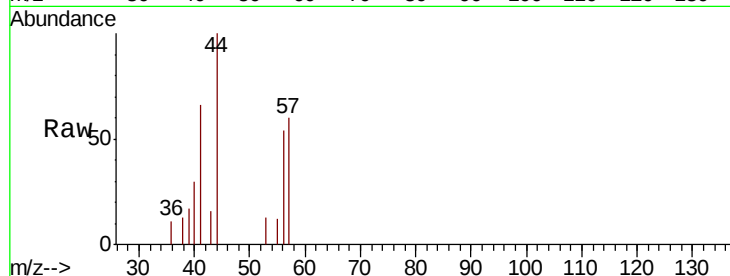
Tot Ion: 53 Resp: 201

Ion Ratio Lower Upper

53 100

52 0.0 70.0 105.0#

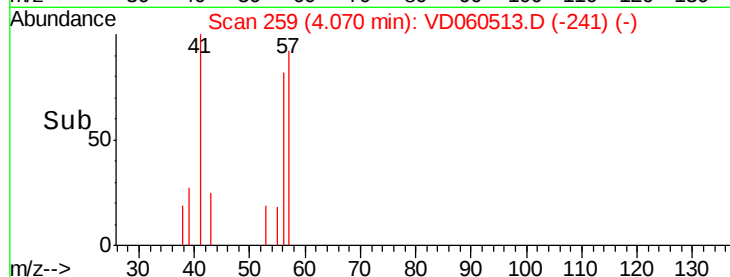
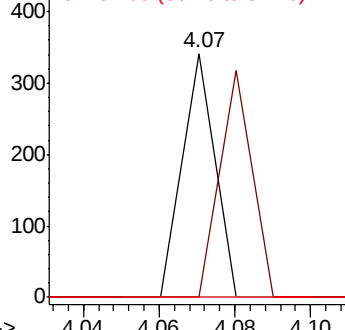
51 0.0 28.8 43.2#



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



#16

Acetone

Concen: 429.527 ug/l

RT: 3.16 min Scan# 166

Delta R.T. -0.02 min

Lab File: VD060513.D

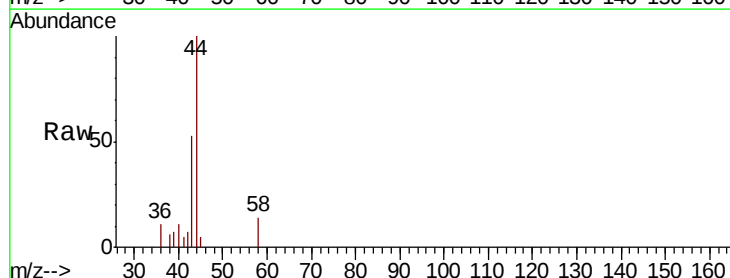
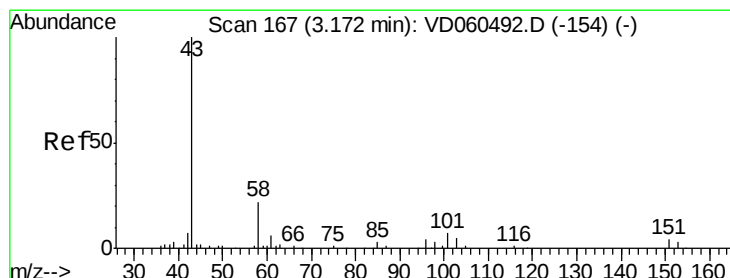
Acq: 7 Dec 2018 12:53

Tgt Ion: 43 Resp: 16007

Ion Ratio Lower Upper

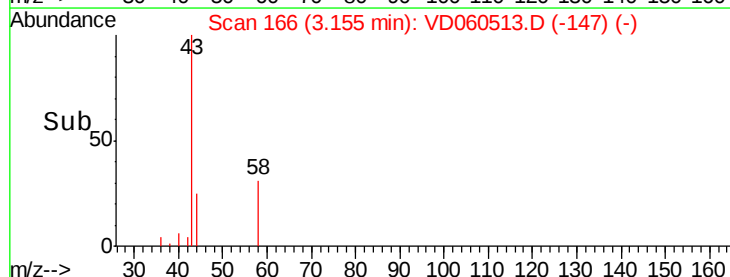
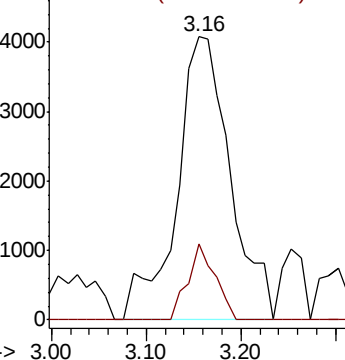
43 100

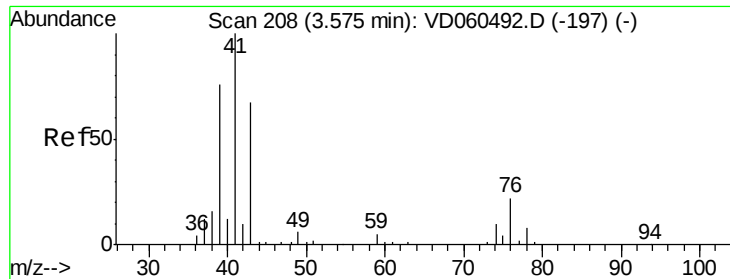
58 26.6 17.3 25.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

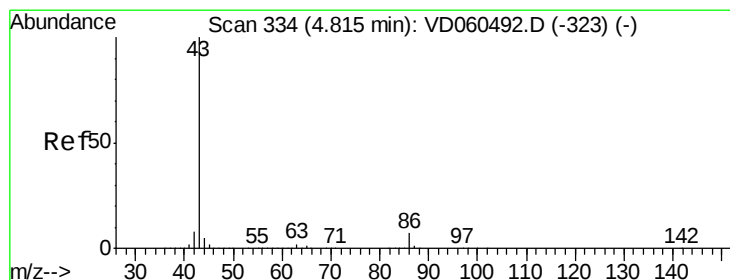
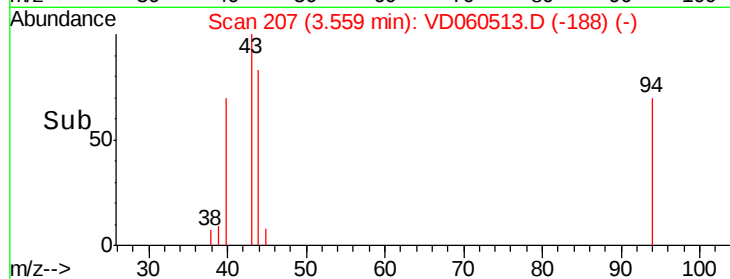
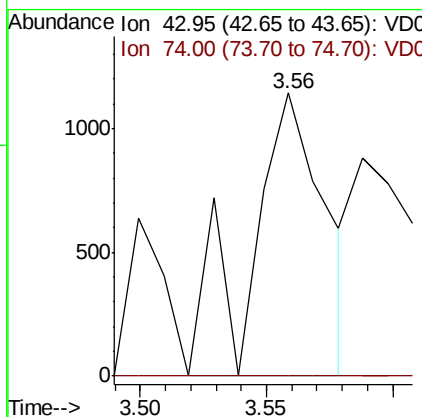
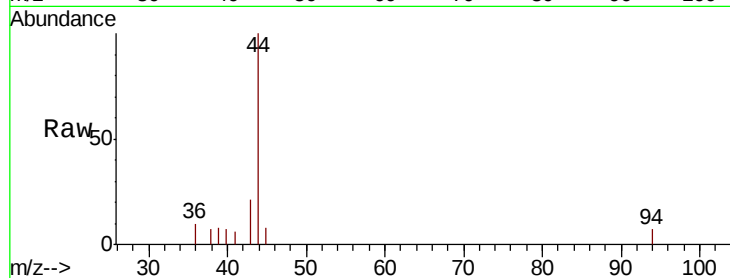




#18
Methvl Acetate
Concen: 26.725 ug/l
RT: 3.56 min Scan# 207
Delta R.T. -0.02 min
Lab File: VD060513.D
Acq: 7 Dec 2018 12:53

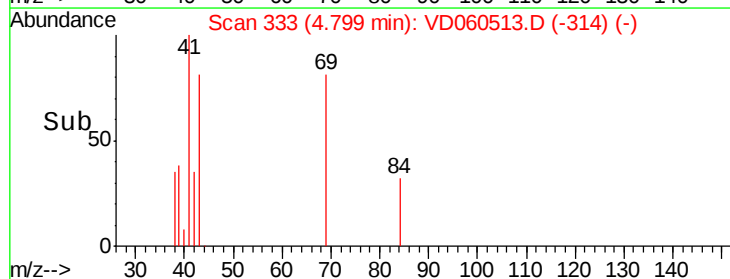
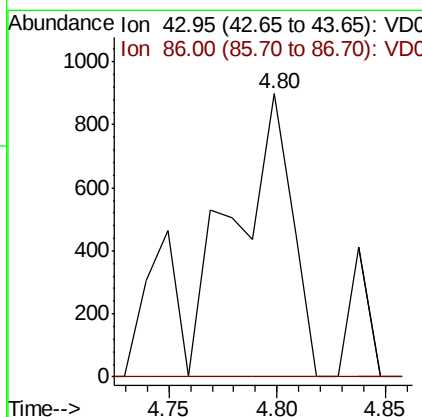
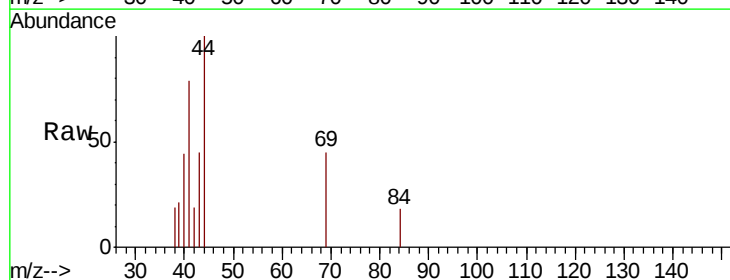
Instrument :
MSVOA_D
ClientSampleId :
OILY-SOIL

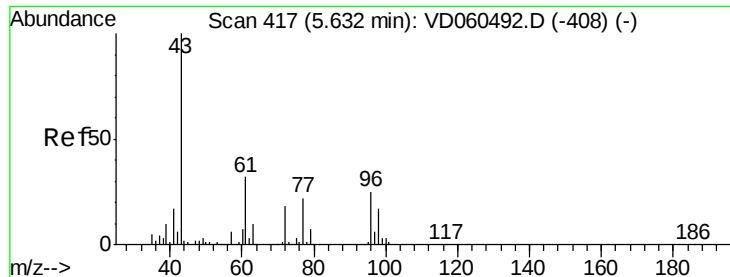
Tot Ion: 43 Resp: 2367
Ion Ratio Lower Upper
43 100
74 0.0 12.0 18.0#



#23
Vinyl Acetate
Concen: 3.011 ug/l
RT: 4.80 min Scan# 333
Delta R.T. -0.02 min
Lab File: VD060513.D
Acq: 7 Dec 2018 12:53

Tgt Ion: 43 Resp: 1666
Ion Ratio Lower Upper
43 100
86 0.0 5.5 8.3#





#25

2-Butanone

Concen: 116.874 ug/l

RT: 5.62 min Scan# 416

Delta R.T. -0.02 min

Lab File: VD060513.D

Acq: 7 Dec 2018 12:53

Instrument :

MSVOA_D

ClientSampleId :

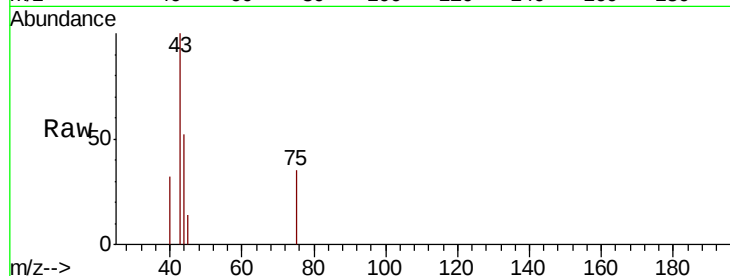
OILY-SOIL

Tot Ion: 43 Resp: 8569

Ion Ratio Lower Upper

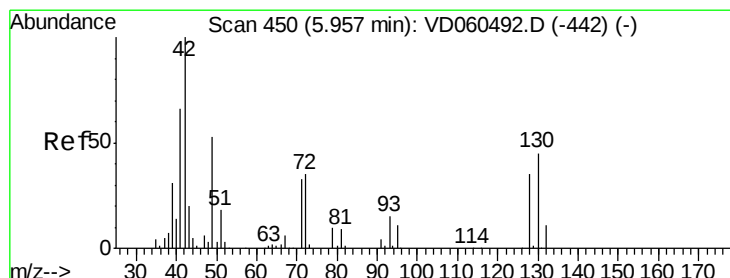
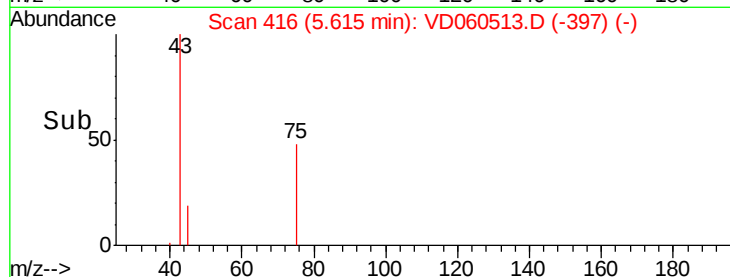
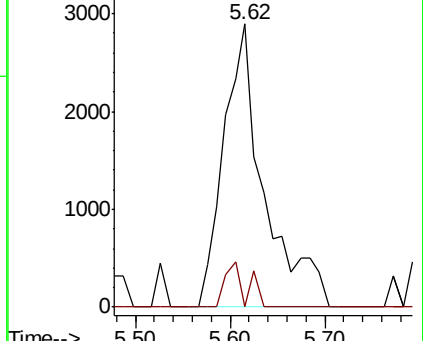
43 100

72 0.0 14.6 21.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 593.612 ug/l

RT: 6.35 min Scan# 491

Delta R.T. 0.40 min

Lab File: VD060513.D

Acq: 7 Dec 2018 12:53

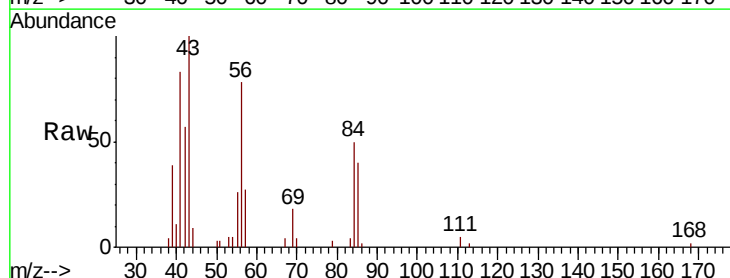
Tgt Ion: 42 Resp: 24646

Ion Ratio Lower Upper

42 100

72 0.0 28.0 42.0#

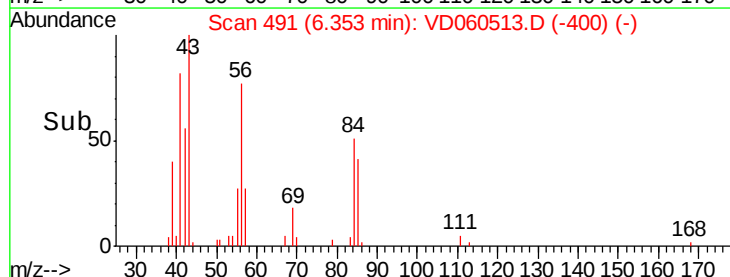
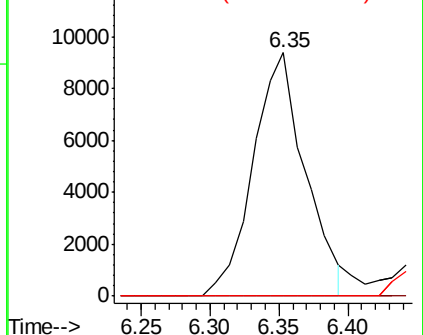
71 0.0 27.2 40.8#

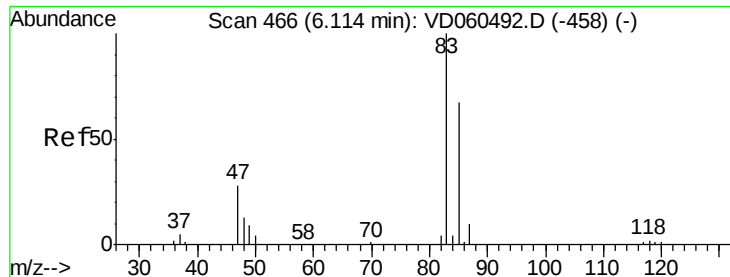


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

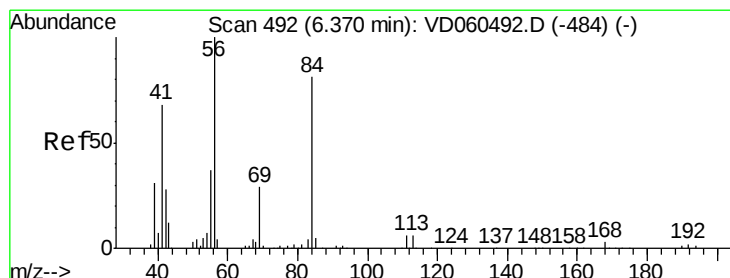
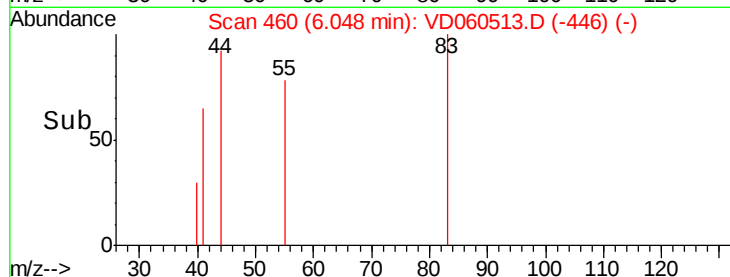
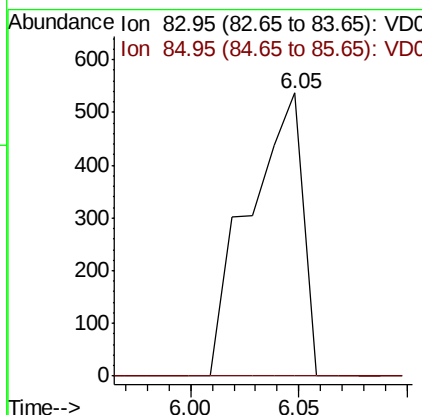
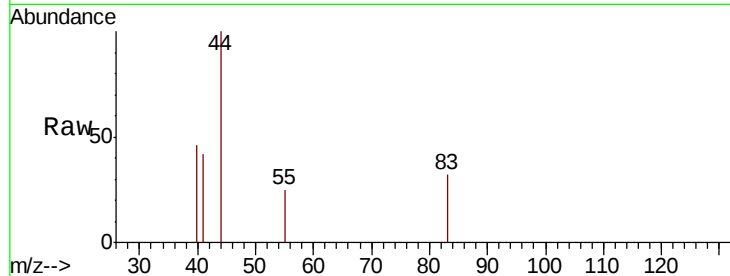




#30
Chloroform
Concen: 1.596 ug/l
RT: 6.05 min Scan# 460
Delta R.T. -0.07 min
Lab File: VD060513.D
Acq: 7 Dec 2018 12:53

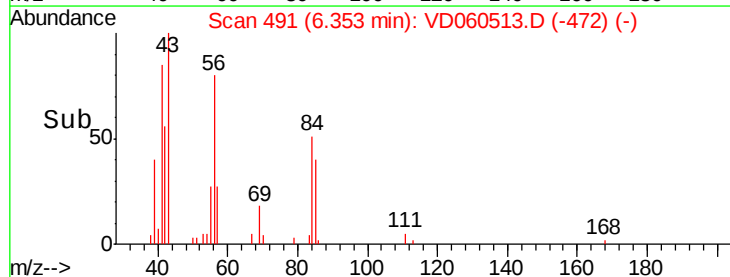
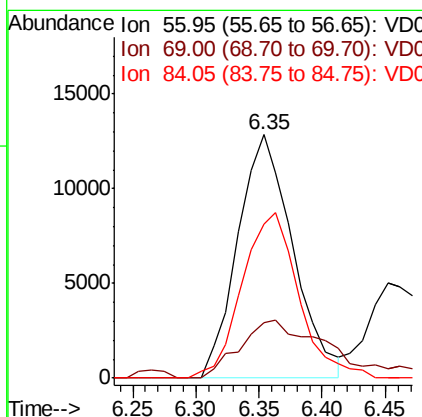
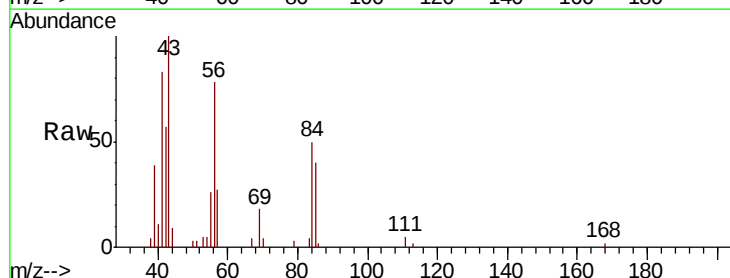
Instrument :
MSVOA_D
ClientSampleId :
OILY-SOIL

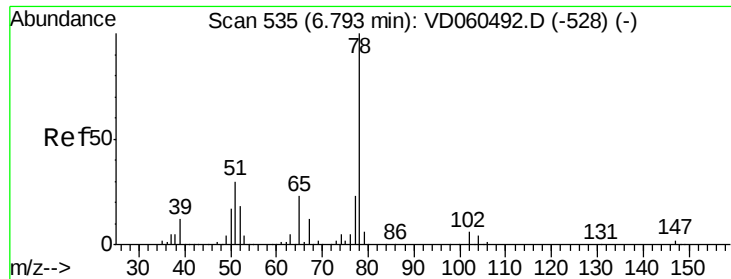
Tot Ion: 83 Resp: 933
Ion Ratio Lower Upper
83 100
85 0.0 53.4 80.2#



#31
Cyclohexane
Concen: 80.839 ug/l
RT: 6.35 min Scan# 491
Delta R.T. -0.02 min
Lab File: VD060513.D
Acq: 7 Dec 2018 12:53

Tgt Ion: 56 Resp: 38935
Ion Ratio Lower Upper
56 100
69 22.6 22.8 34.2#
84 63.4 65.1 97.7#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.77 min Scan# 533

Delta R.T. -0.03 min

Lab File: VD060513.D

Acq: 7 Dec 2018 12:53

Instrument :

MSVOA_D

ClientSampleId :

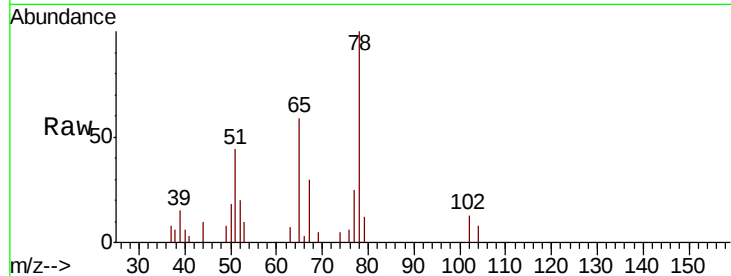
OILY-SOIL

Tot Ion: 65 Resp: 18638

Ion Ratio Lower Upper

65 100

67 50.1 0.0 106.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

6.77

8000

6000

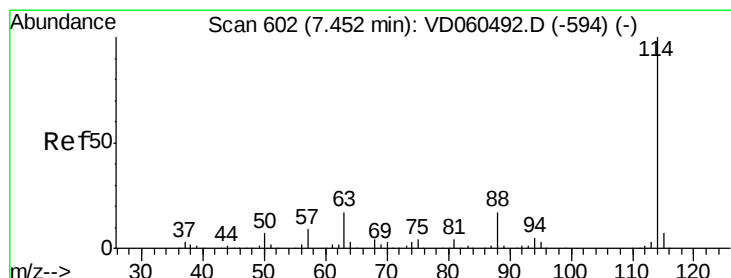
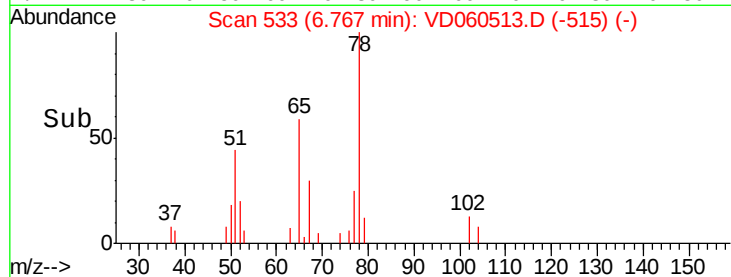
4000

2000

0

6.70 6.80 6.90

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.44 min Scan# 601

Delta R.T. -0.02 min

Lab File: VD060513.D

Acq: 7 Dec 2018 12:53

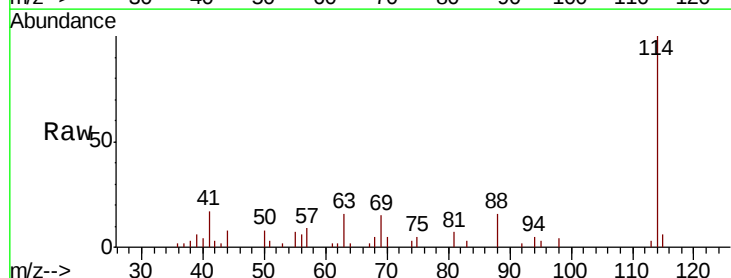
Tgt Ion: 114 Resp: 49404

Ion Ratio Lower Upper

114 100

63 15.9 0.0 34.2

88 15.7 0.0 35.0



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

25000

20000

15000

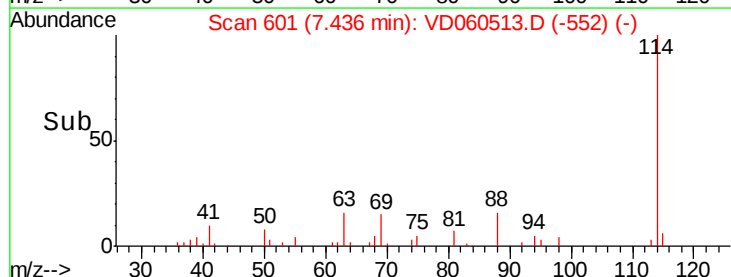
10000

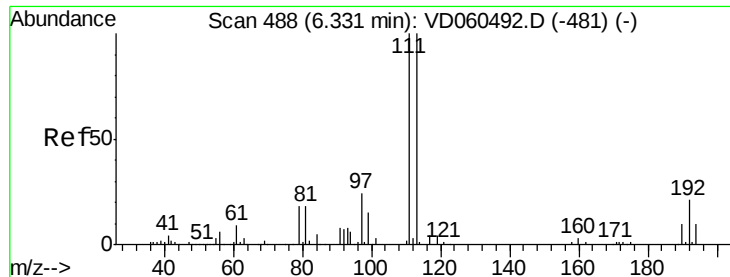
5000

0

7.40 7.50

Time-->





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.30 min Scan# 486

Delta R.T. -0.03 min

Lab File: VD060513.D

Acq: 7 Dec 2018 12:53

Instrument :

MSVOA_D

ClientSampleId :

OILY-SOIL

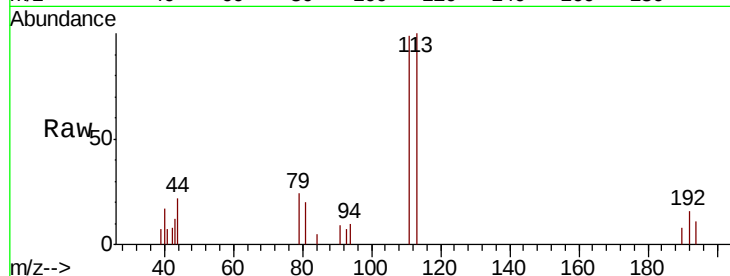
Tot Ion:113 Resp: 16698

Ion Ratio Lower Upper

113 100

111 99.1 80.2 120.4

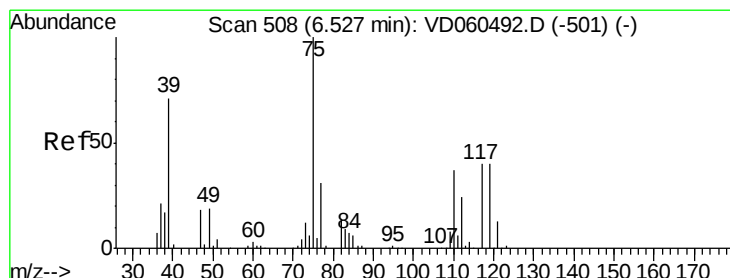
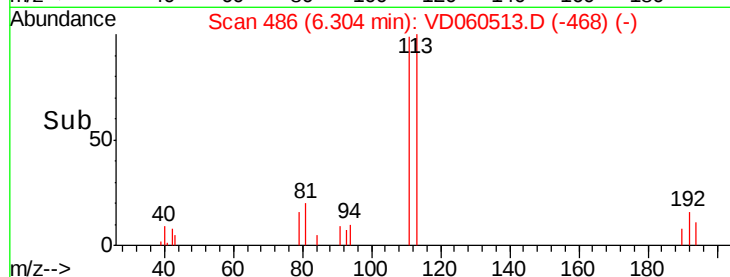
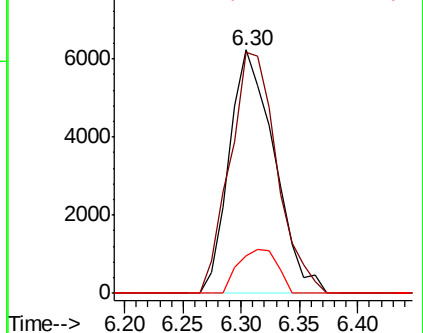
192 15.6 16.6 24.8#



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 3.752 ug/l

RT: 6.38 min Scan# 494

Delta R.T. -0.14 min

Lab File: VD060513.D

Acq: 7 Dec 2018 12:53

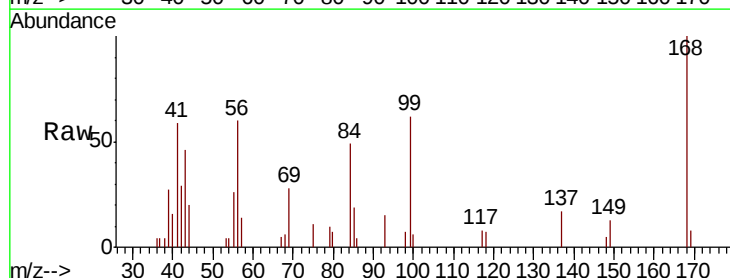
Tgt Ion: 75 Resp: 1812

Ion Ratio Lower Upper

75 100

110 0.0 18.3 54.8#

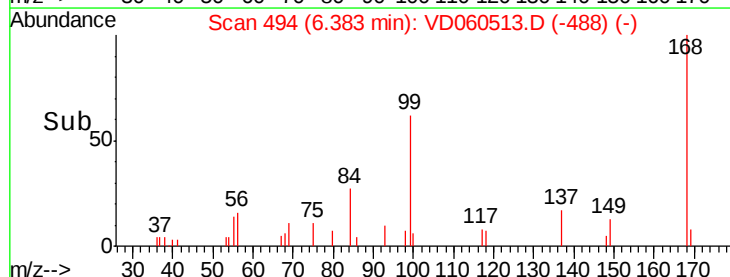
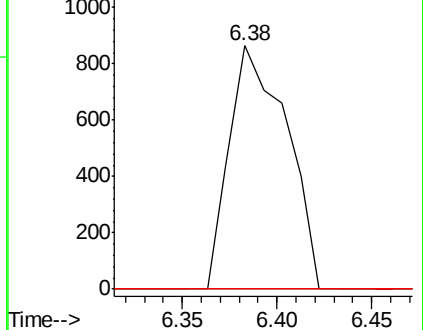
77 0.0 24.6 37.0#

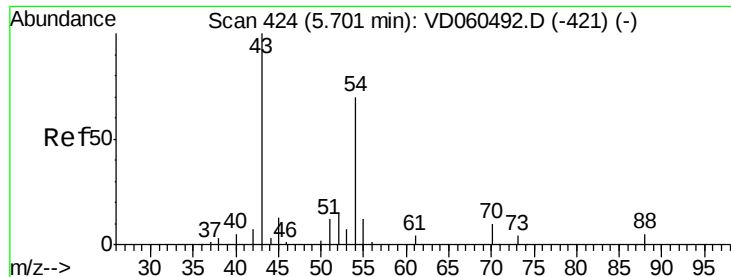


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

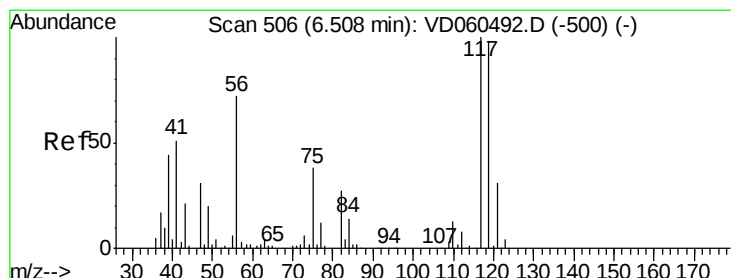
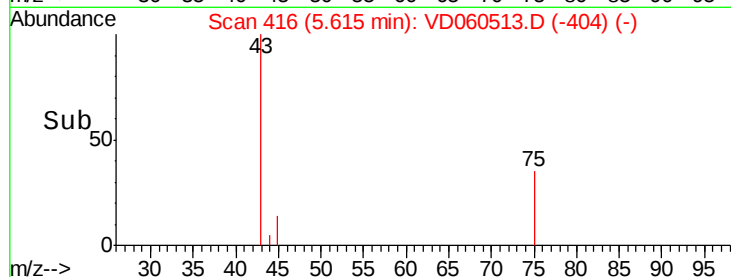
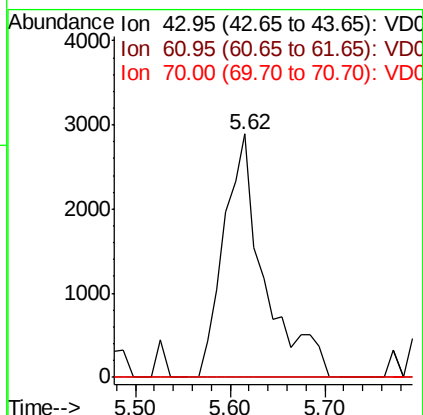
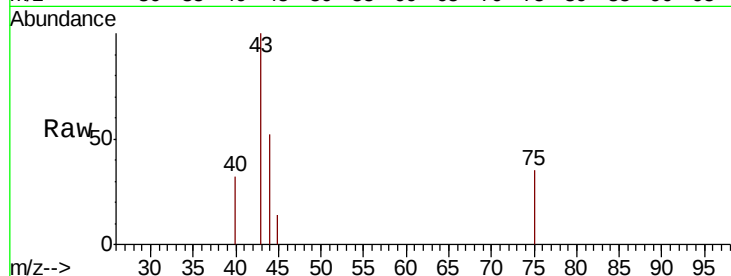




#37
Ethyl Acetate
Concen: 40.915 ug/l
RT: 5.62 min Scan# 416
Delta R.T. -0.09 min
Lab File: VD060513.D
Acq: 7 Dec 2018 12:53

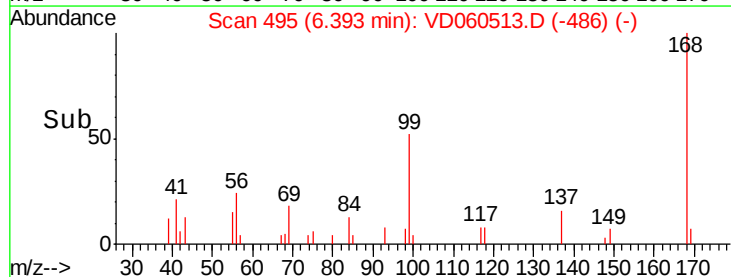
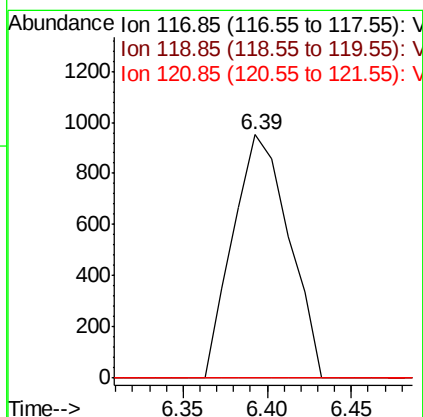
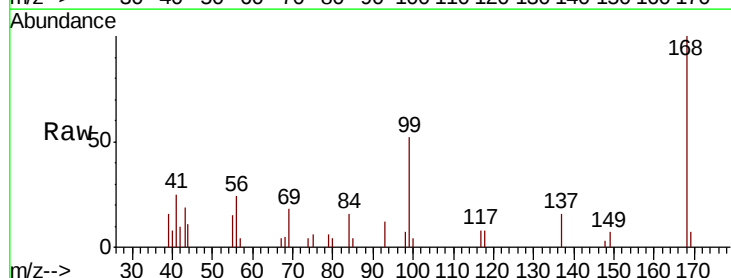
Instrument :
MSVOA_D
ClientSampleId :
OILY-SOIL

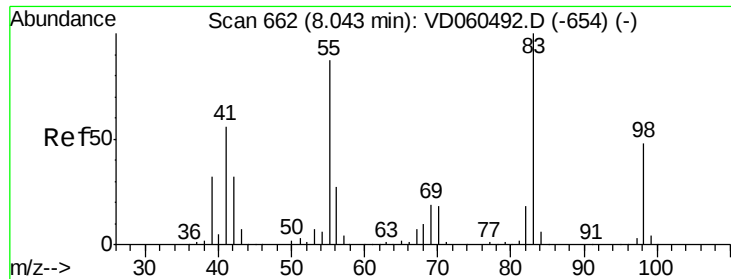
Tot Ion: 43 Resp: 8569
Ion Ratio Lower Upper
43 100
61 0.0 12.4 18.6#
70 0.0 5.4 8.0#



#38
Carbon Tetrachloride
Concen: 5.068 ug/l
RT: 6.39 min Scan# 495
Delta R.T. -0.12 min
Lab File: VD060513.D
Acq: 7 Dec 2018 12:53

Tgt Ion: 117 Resp: 2197
Ion Ratio Lower Upper
117 100
119 0.0 76.8 115.2#
121 0.0 24.4 36.6#

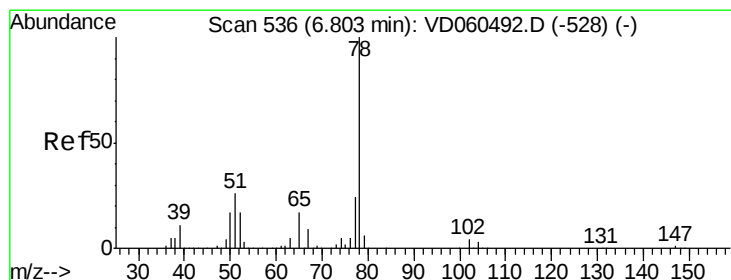
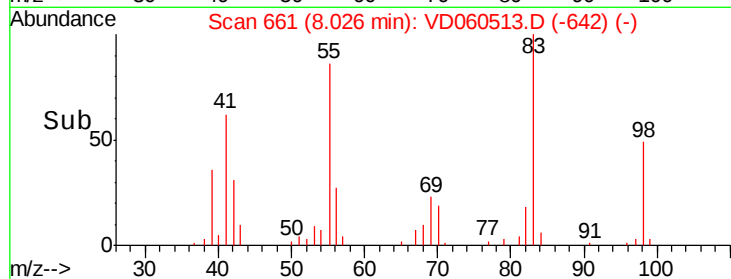
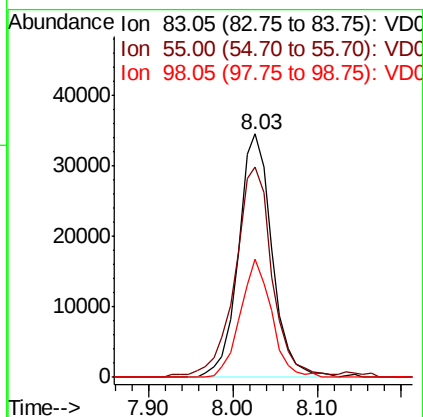
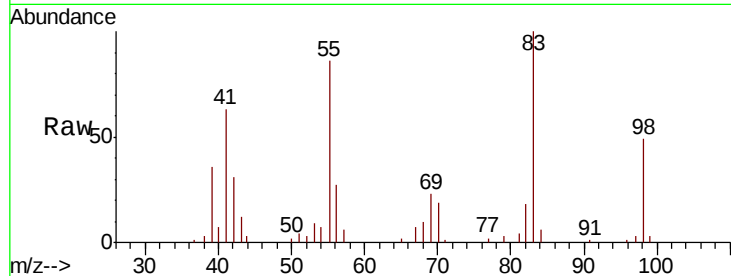




#39
Methvlcvclohexane
Concen: 174.481 ug/l
RT: 8.03 min Scan# 661
Delta R.T. -0.02 min
Lab File: VD060513.D
Acq: 7 Dec 2018 12:53

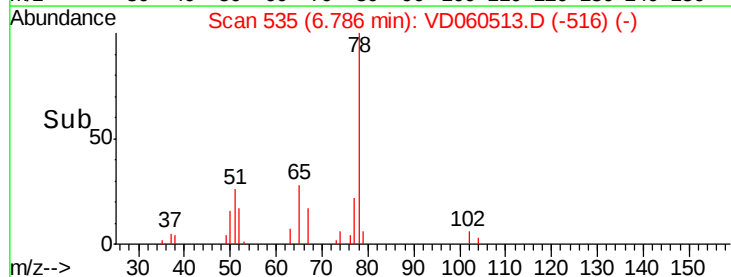
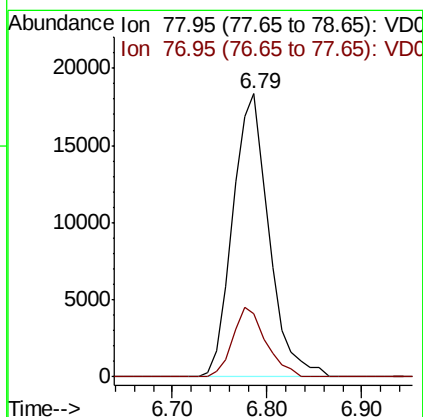
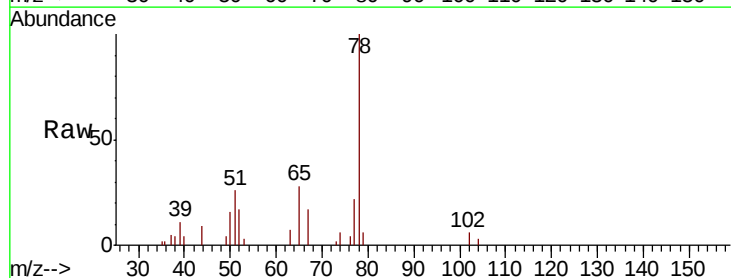
Instrument :
MSVOA_D
ClientSampleId :
OILY-SOIL

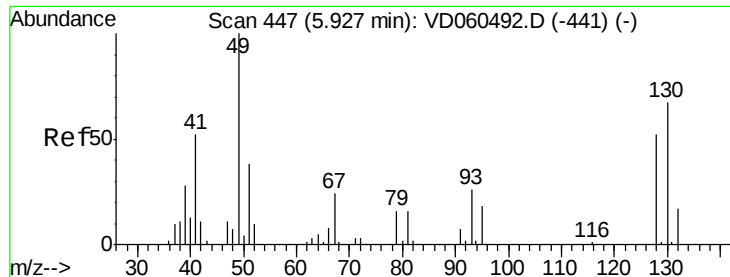
Tot Ion: 83 Resp: 96054
Ion Ratio Lower Upper
83 100
55 86.3 69.8 104.8
98 48.6 38.4 57.6



#40
Benzene
Concen: 39.121 ug/l
RT: 6.79 min Scan# 535
Delta R.T. -0.02 min
Lab File: VD060513.D
Acq: 7 Dec 2018 12:53

Tgt Ion: 78 Resp: 48283
Ion Ratio Lower Upper
78 100
77 22.4 18.9 28.3





#41

Methacrylonitrile

Concen: 1.842 ug/l

RT: 5.91 min Scan# 446

Delta R.T. -0.02 min

Lab File: VD060513.D

Acq: 7 Dec 2018 12:53

Instrument :

MSVOA_D

ClientSampleId :

OILY-SOIL

Tot Ion: 41 Resp: 208

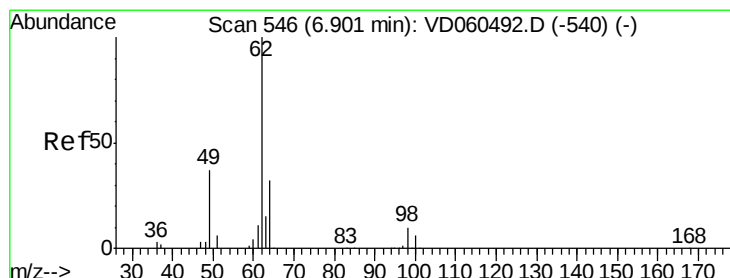
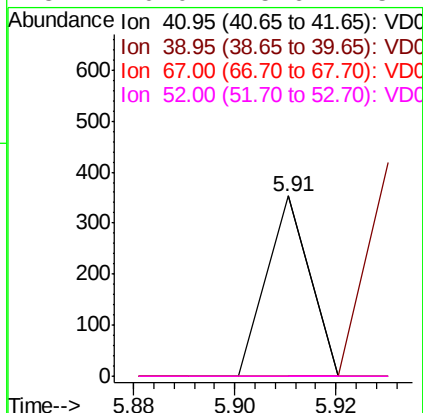
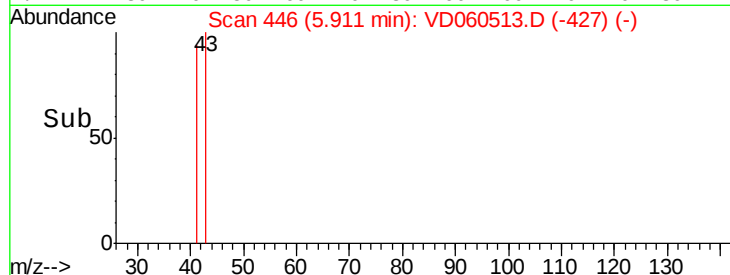
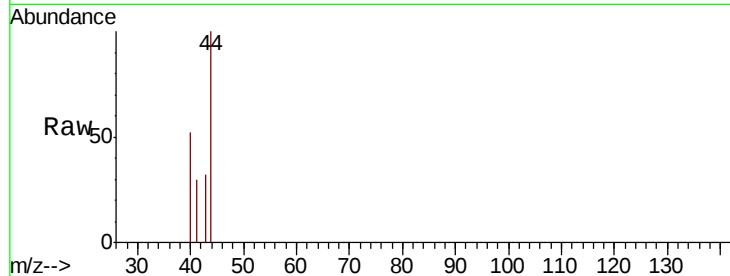
Ion Ratio Lower Upper

41 100

39 0.0 42.6 63.8#

67 0.0 36.2 54.4#

52 0.0 15.6 23.4#



#42

1,2-Dichloroethane

Concen: 1.345 ug/l

RT: 6.87 min Scan# 544

Delta R.T. -0.03 min

Lab File: VD060513.D

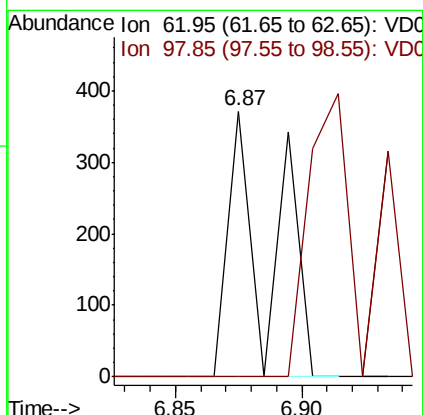
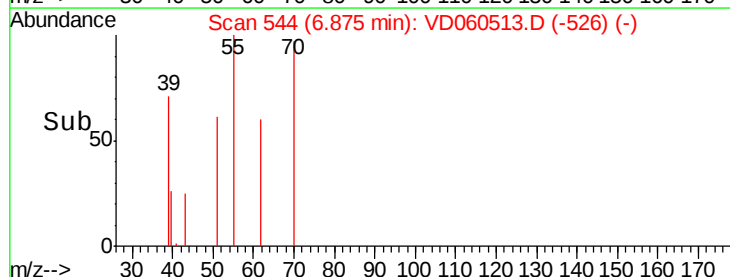
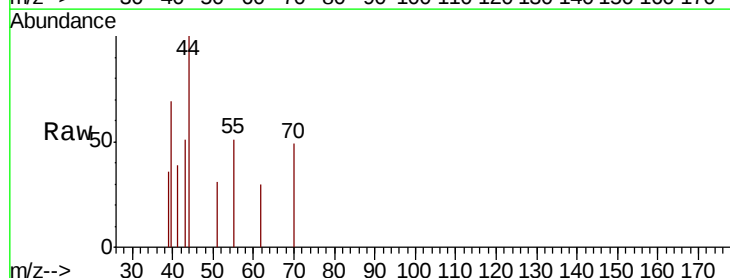
Acq: 7 Dec 2018 12:53

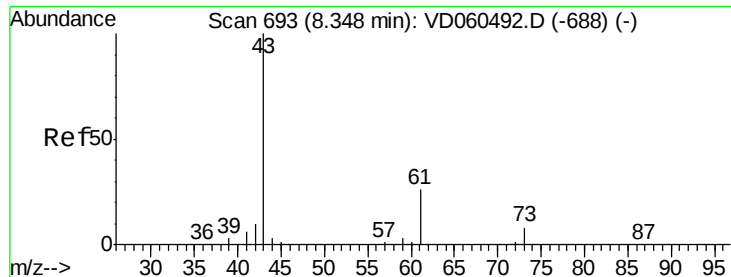
Tgt Ion: 62 Resp: 422

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.2





#43

Isopropyl Acetate

Concen: 2.058 ug/l

RT: 8.30 min Scan# 689

Delta R.T. -0.05 min

Lab File: VD060513.D

Acq: 7 Dec 2018 12:53

Instrument :

MSVOA_D

ClientSampled :

OILY-SOIL

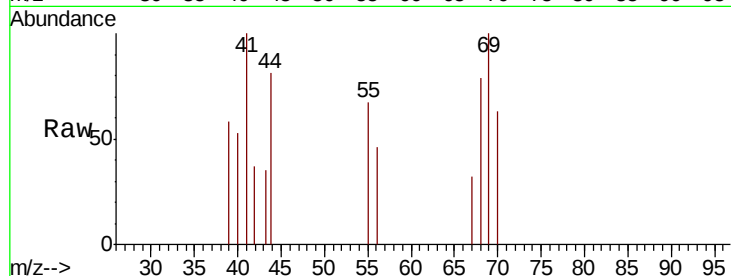
Tot Ion: 43 Resp: 532

Ion Ratio Lower Upper

43 100

61 0.0 21.0 31.4#

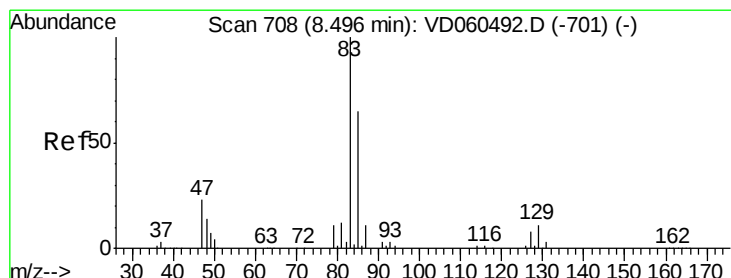
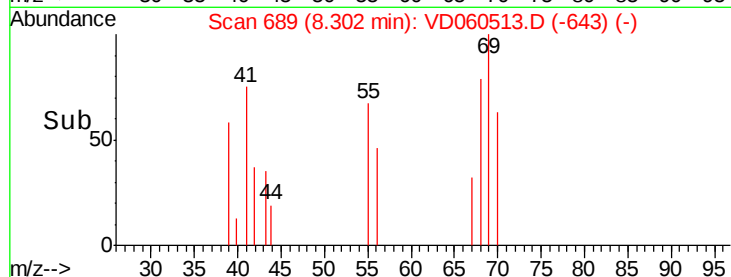
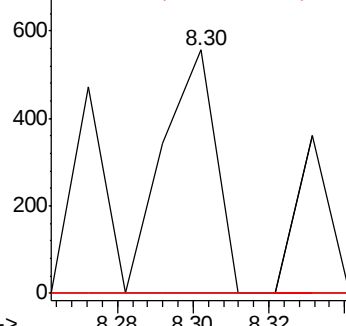
87 0.0 0.2 0.2#



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



#47

Bromodichloromethane

Concen: 12.087 ug/l

RT: 8.48 min Scan# 707

Delta R.T. -0.02 min

Lab File: VD060513.D

Acq: 7 Dec 2018 12:53

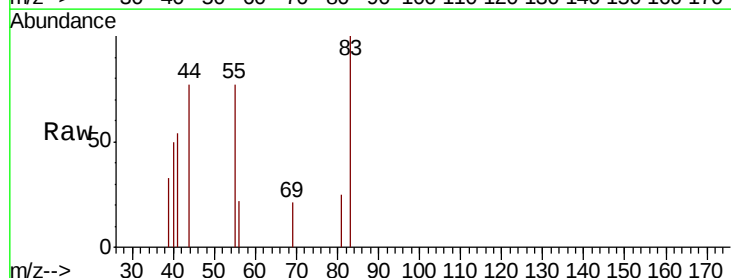
Tgt Ion: 83 Resp: 5058

Ion Ratio Lower Upper

83 100

85 0.0 52.2 78.4#

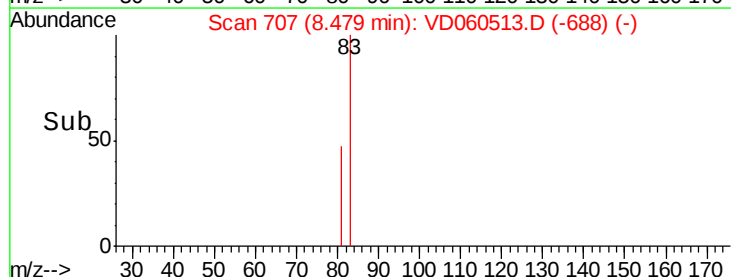
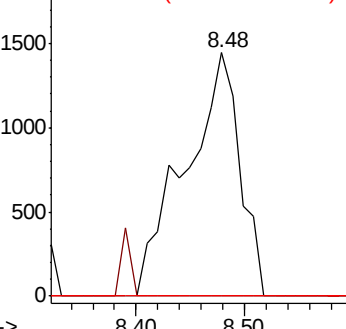
127 0.0 6.7 10.1#

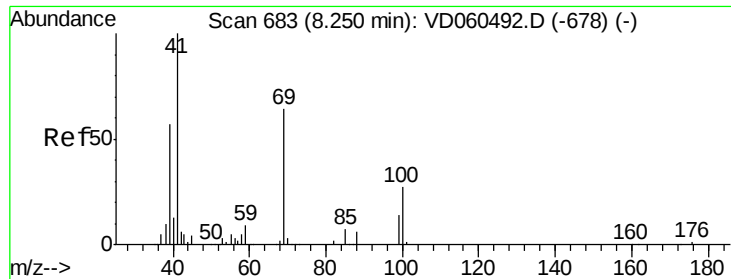


Abundance Ion 82.85 (82.55 to 83.55): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 126.80 (126.50 to 127.50): VDC





#48

Methyl methacrylate

Concen: 74.354 ug/l

RT: 8.28 min Scan# 687

Delta R.T. 0.03 min

Lab File: VD060513.D

Acq: 7 Dec 2018 12:53

Instrument :

MSVOA_D

ClientSampleId :

OILY-SOIL

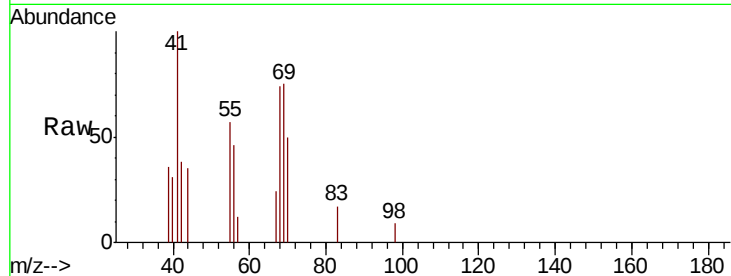
Tot Ion: 41 Resp: 11374

Ion Ratio Lower Upper

41 100

69 75.4 50.2 75.4#

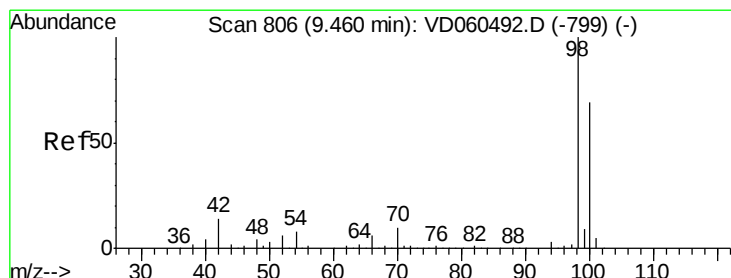
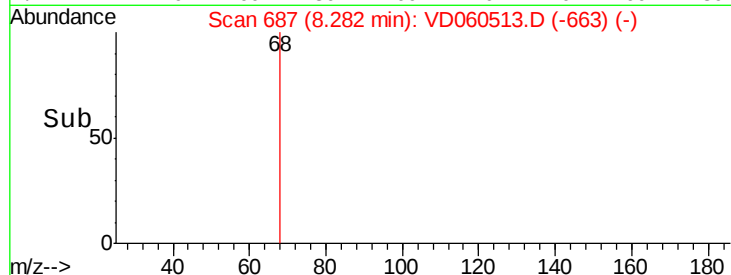
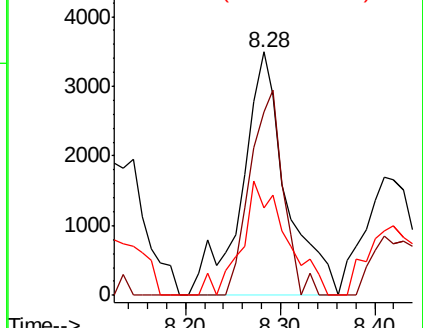
39 35.7 46.1 69.1#



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



#50

Toluene-d8

Concen: N.D. ug/l

RT: 9.44 min Scan# 805

Delta R.T. -0.02 min

Lab File: VD060513.D

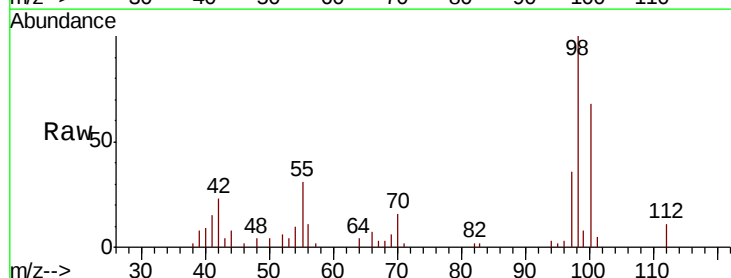
Acq: 7 Dec 2018 12:53

Tgt Ion: 98 Resp: 45574

Ion Ratio Lower Upper

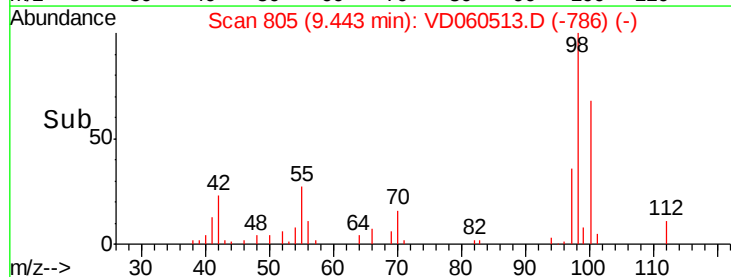
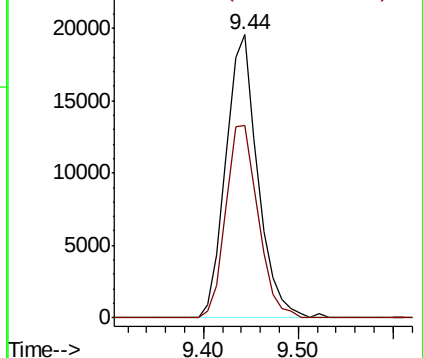
98 100

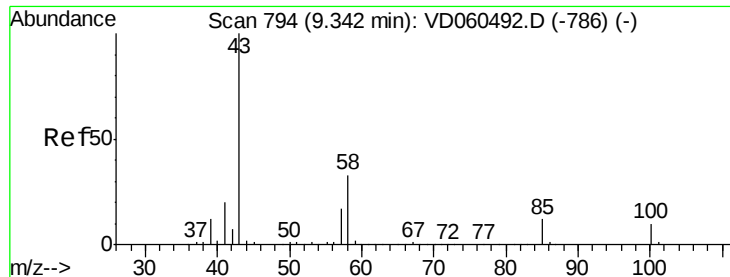
100 67.9 55.7 83.5



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 24.413 ug/l

RT: 9.32 min Scan# 792

Delta R.T. -0.03 min

Lab File: VD060513.D

Acq: 7 Dec 2018 12:53

Instrument :

MSVOA_D

ClientSampleId :

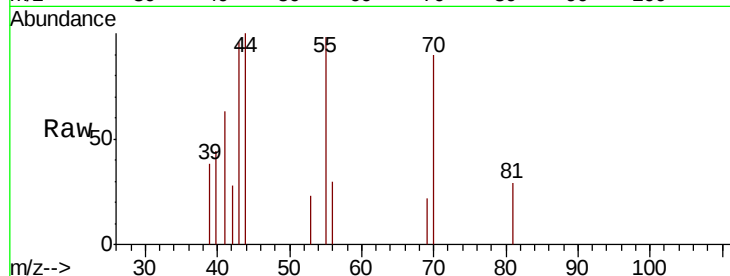
OILY-SOIL

Tot Ion: 43 Resp: 3926

Ion Ratio Lower Upper

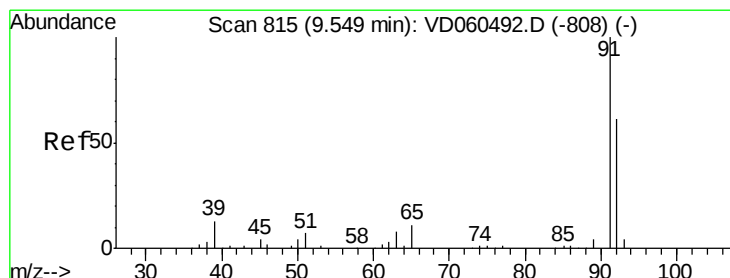
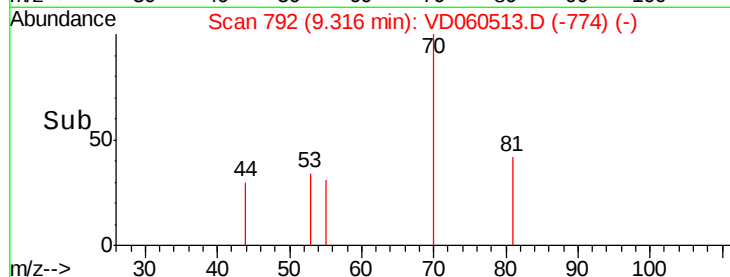
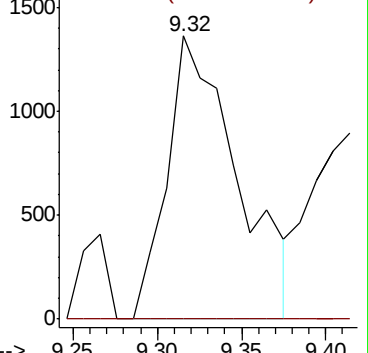
43 100

58 0.0 26.3 39.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 509.974 ug/l

RT: 9.53 min Scan# 814

Delta R.T. -0.02 min

Lab File: VD060513.D

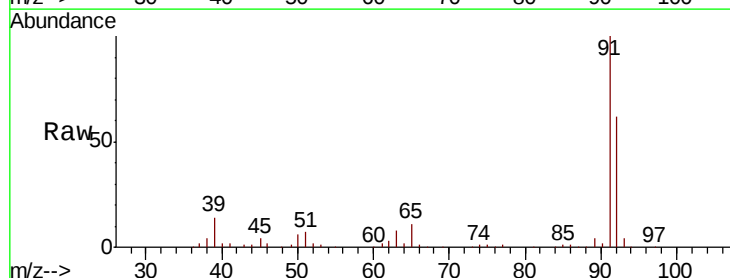
Acq: 7 Dec 2018 12:53

Tgt Ion: 92 Resp: 393390

Ion Ratio Lower Upper

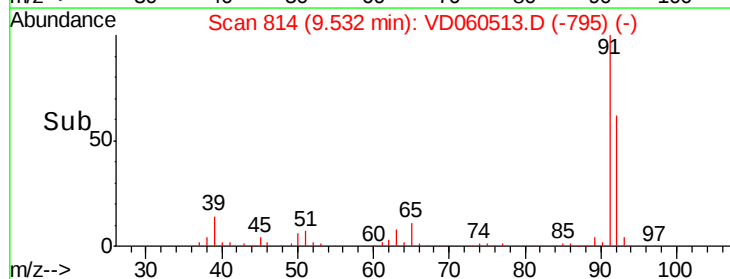
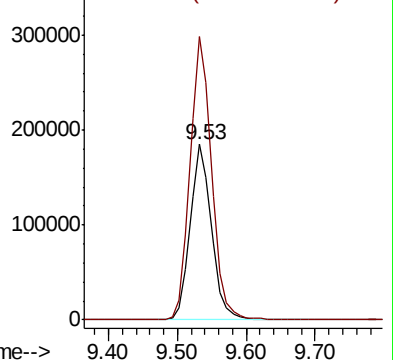
92 100

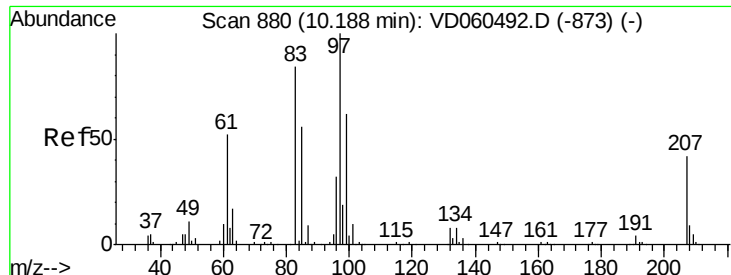
91 161.3 131.7 197.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

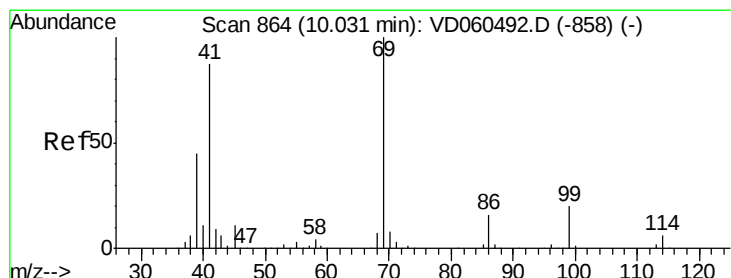
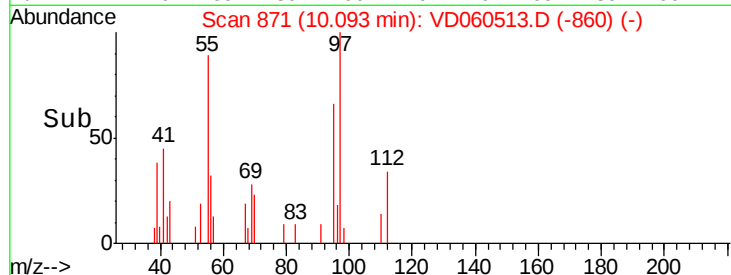
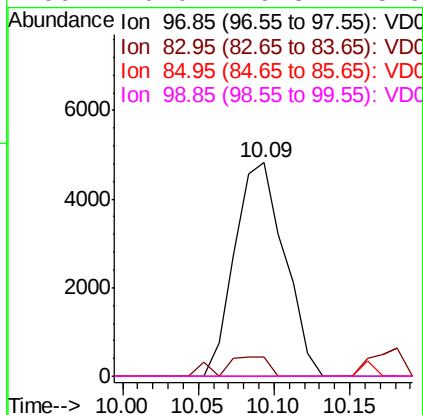
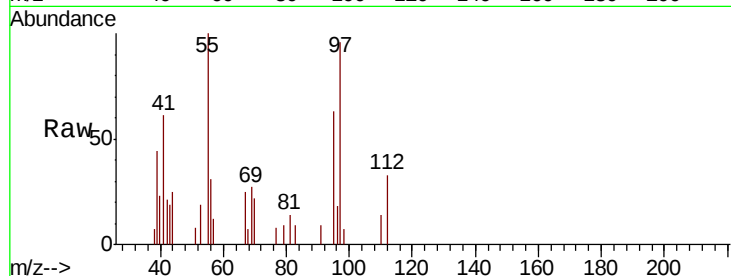




#55
 1,1,2-Trichloroethane
 Concen: 51.462 ug/l
 RT: 10.09 min Scan# 871
 Delta R.T. -0.10 min
 Lab File: VD060513.D
 Acq: 7 Dec 2018 12:53

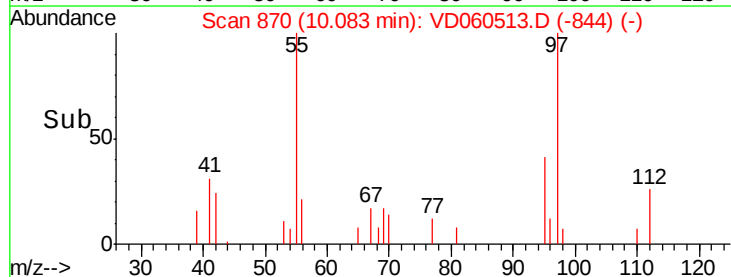
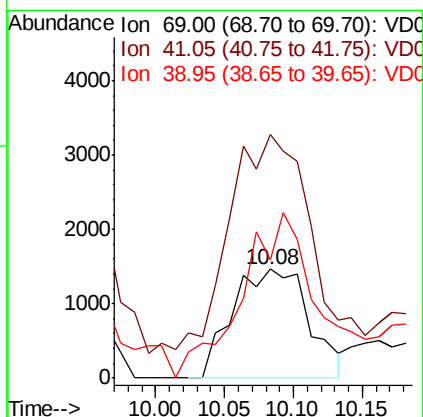
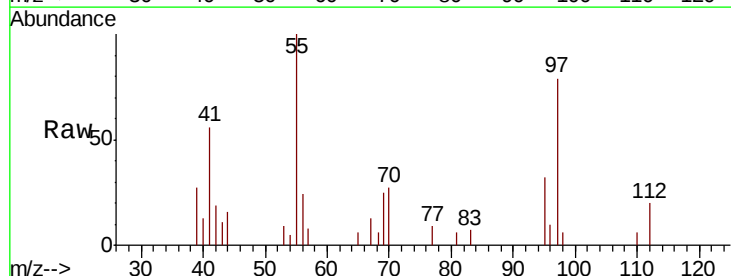
Instrument :
 MSVOA_D
 ClientSampleId :
 OILY-SOIL

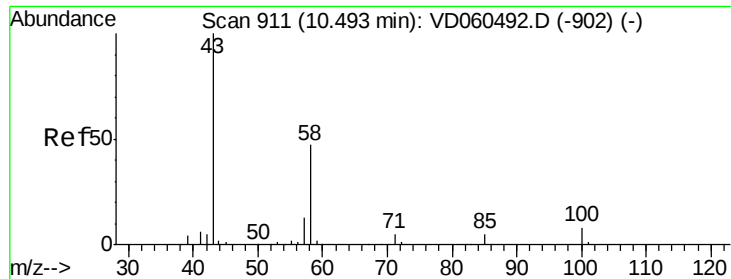
Tot Ion: 97 Resp: 11055
 Ion Ratio Lower Upper
 97 100
 83 9.2 67.2 100.8#
 85 0.0 44.5 66.7#
 99 0.0 49.3 73.9#



#56
 Ethyl methacrylate
 Concen: 29.015 ug/l
 RT: 10.08 min Scan# 870
 Delta R.T. 0.05 min
 Lab File: VD060513.D
 Acq: 7 Dec 2018 12:53

Tgt Ion: 69 Resp: 5641
 Ion Ratio Lower Upper
 69 100
 41 223.5 69.8 104.8#
 39 108.2 37.5 56.3#

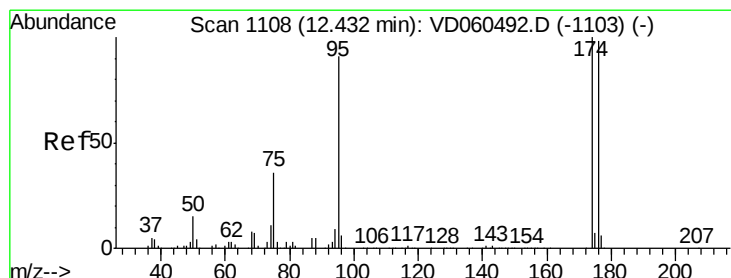
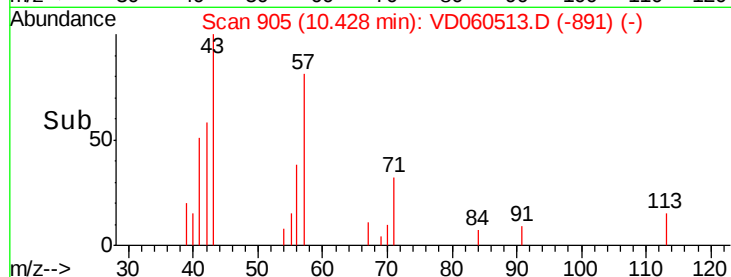
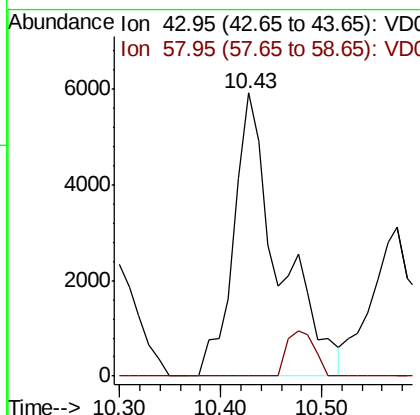
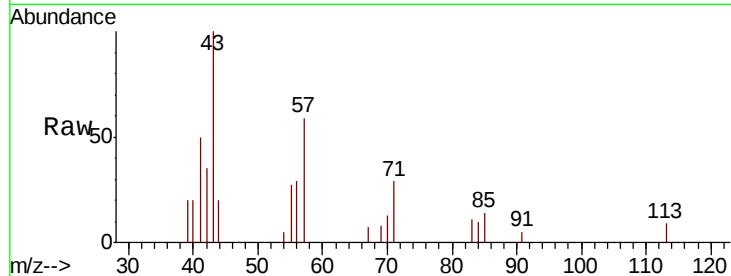




#59
2-Hexanone
Concen: 164.314 ug/l
RT: 10.43 min Scan# 905
Delta R.T. -0.07 min
Lab File: VD060513.D
Acq: 7 Dec 2018 12:53

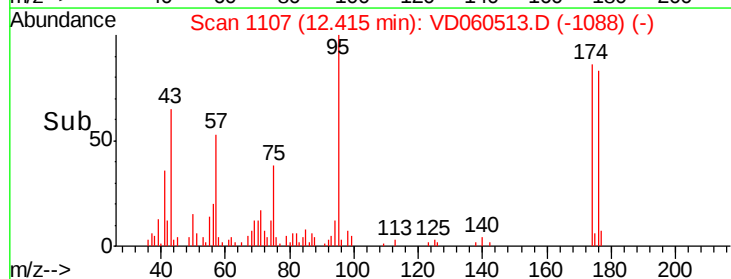
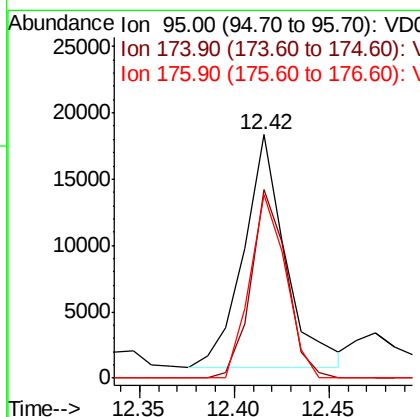
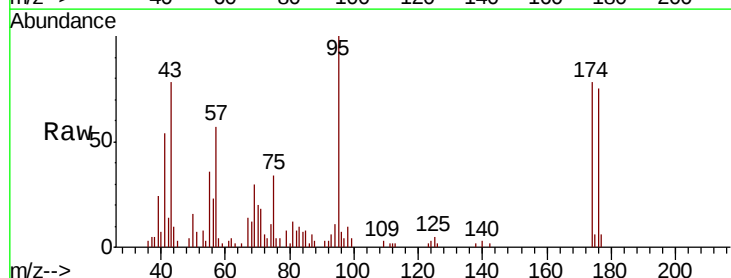
Instrument :
MSVOA_D
ClientSampleId :
OILY-SOIL

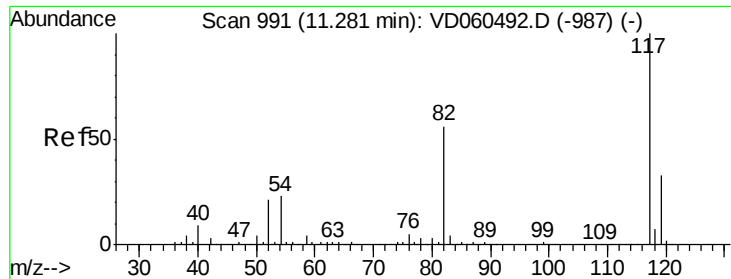
Tot Ion: 43 Resp: 18470
Ion Ratio Lower Upper
43 100
58 0.0 23.4 70.2#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.42 min Scan# 1107
Delta R.T. -0.02 min
Lab File: VD060513.D
Acq: 7 Dec 2018 12:53

Tgt Ion: 95 Resp: 27064
Ion Ratio Lower Upper
95 100
174 77.7 0.0 219.4
176 75.5 0.0 214.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.27 min Scan# 991

Delta R.T. -0.01 min

Lab File: VD060513.D

Acq: 7 Dec 2018 12:53

Instrument :

MSVOA_D

ClientSampleId :

OILY-SOIL

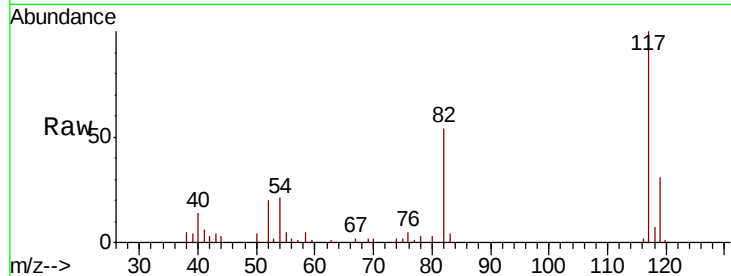
Tot Ion:117 Resp: 41822

Ion Ratio Lower Upper

117 100

82 54.1 45.2 67.8

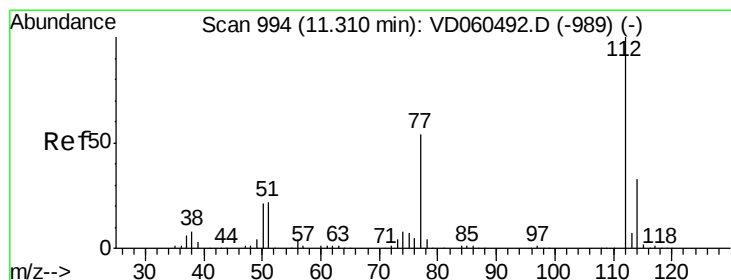
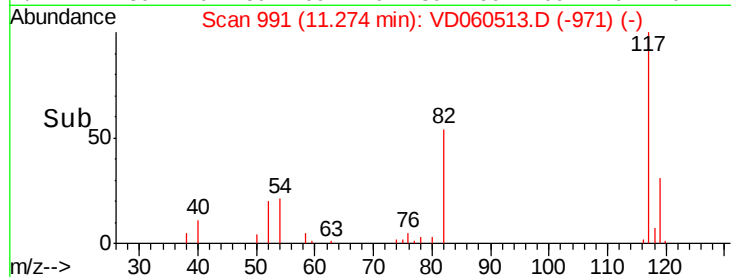
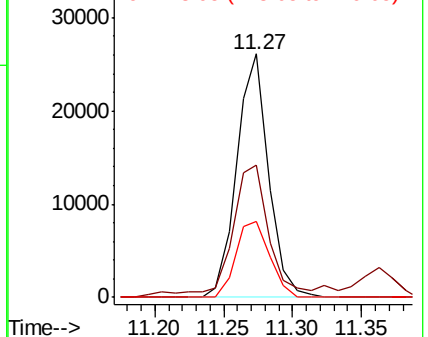
119 31.4 26.1 39.1



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



#65

Chlorobenzene

Concen: 1.155 ug/l

RT: 11.30 min Scan# 994

Delta R.T. -0.01 min

Lab File: VD060513.D

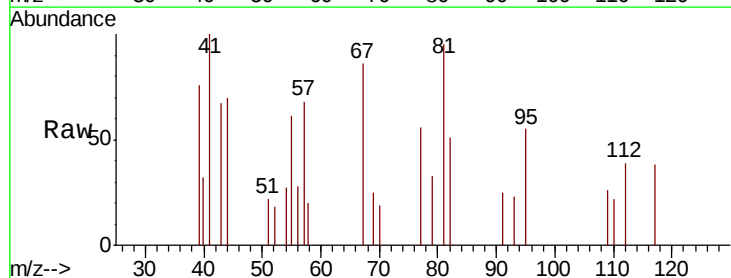
Acq: 7 Dec 2018 12:53

Tgt Ion:112 Resp: 1022

Ion Ratio Lower Upper

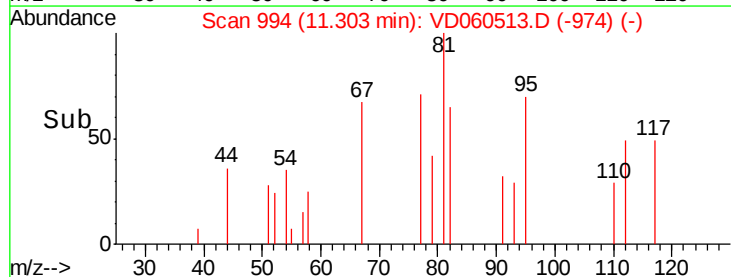
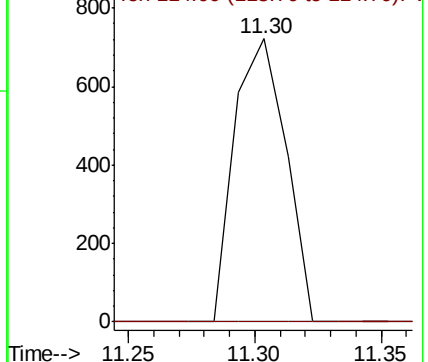
112 100

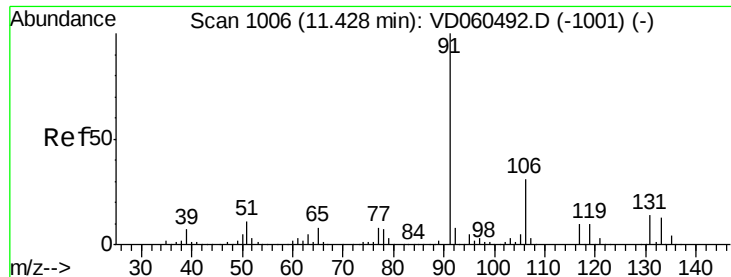
114 0.0 26.2 39.4#



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 114.00 (113.70 to 114.70): V

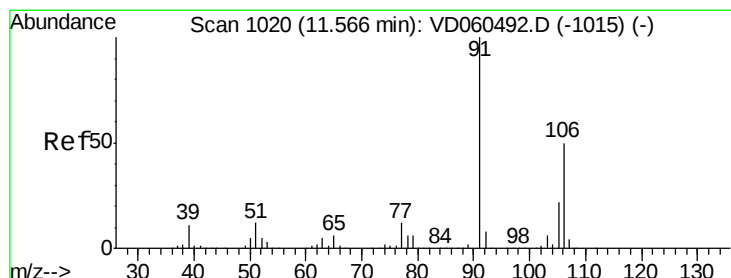
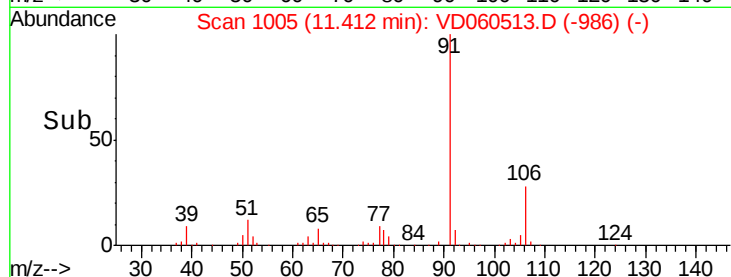
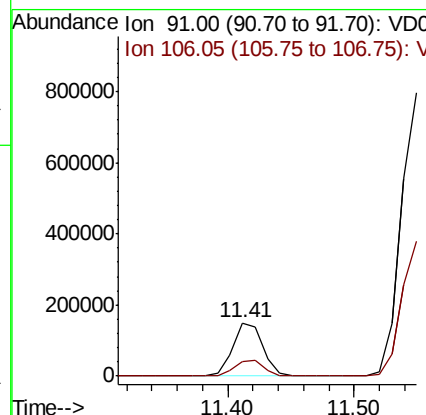
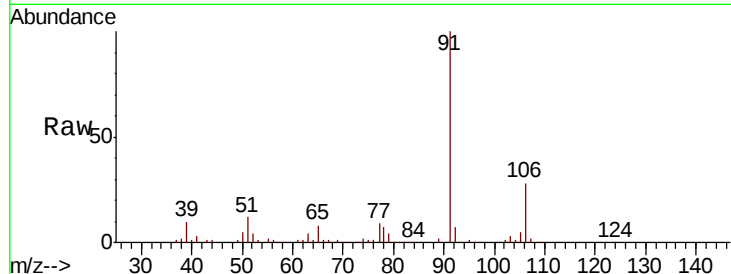




#67
Ethyl Benzene
Concen: 161.242 ug/l
RT: 11.41 min Scan# 1005
Delta R.T. -0.02 min
Lab File: VD060513.D
Acq: 7 Dec 2018 12:53

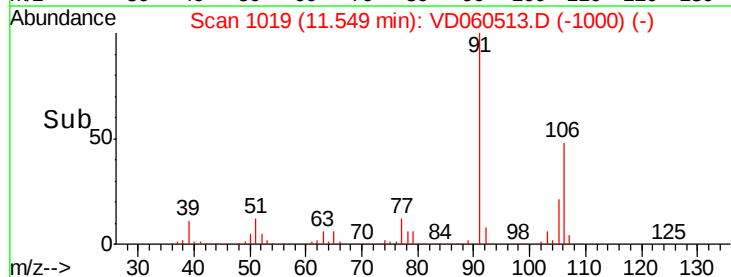
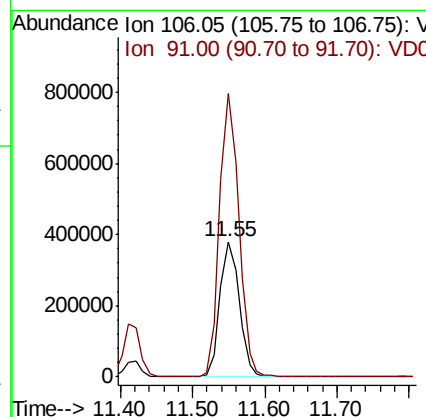
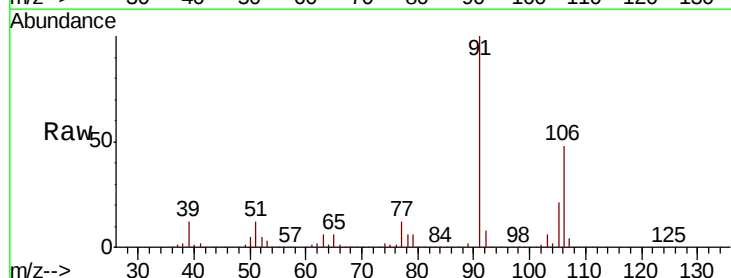
Instrument :
MSVOA_D
ClientSampled :
OILY-SOIL

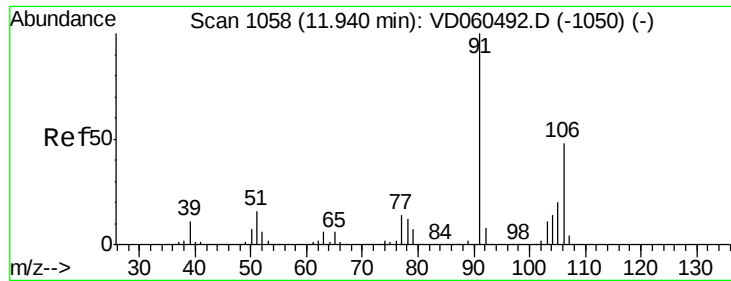
Tot Ion: 91 Resp: 243340
Ion Ratio Lower Upper
91 100
106 27.7 24.6 37.0



#68
m/p-Xylenes
Concen: 1267.525 ug/l
RT: 11.55 min Scan# 1019
Delta R.T. -0.02 min
Lab File: VD060513.D
Acq: 7 Dec 2018 12:53

Tgt Ion: 106 Resp: 707685
Ion Ratio Lower Upper
106 100
91 208.9 160.5 240.7

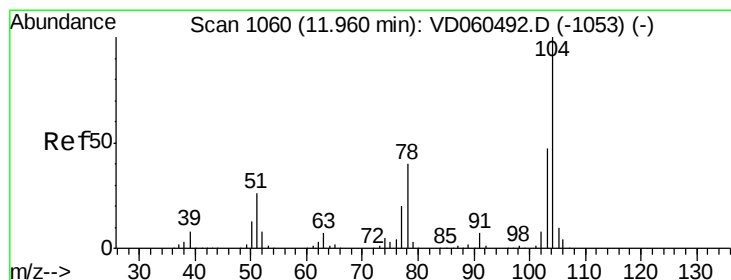
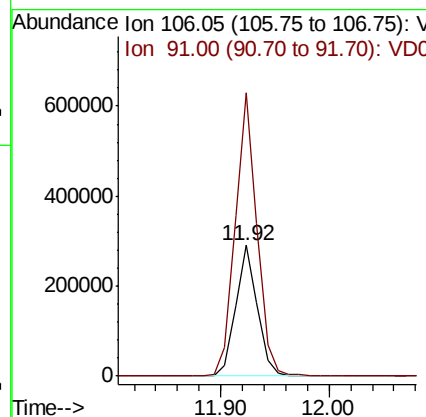
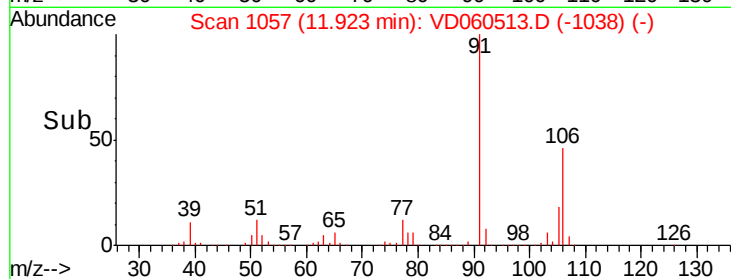
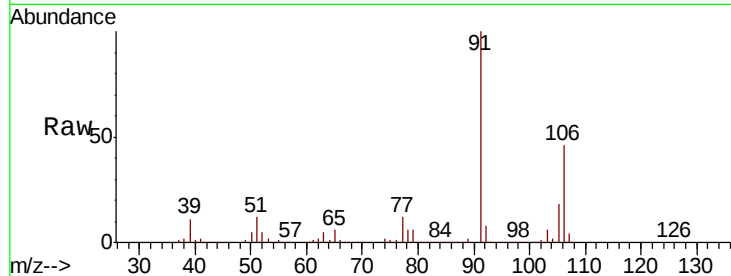




#69
o-Xylene
Concen: 755.797 ug/l
RT: 11.92 min Scan# 1057
Delta R.T. -0.02 min
Lab File: VD060513.D
Acq: 7 Dec 2018 12:53

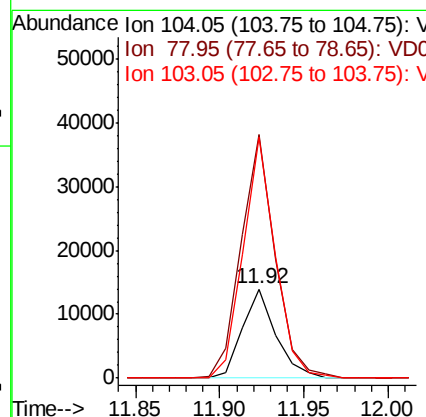
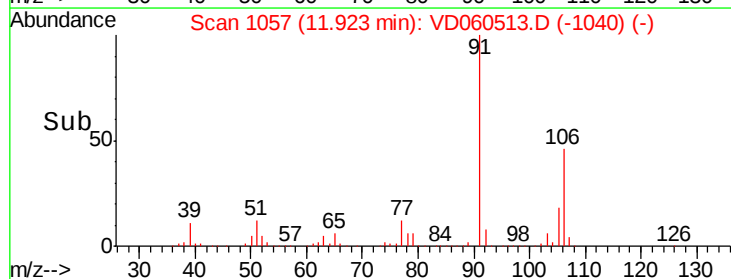
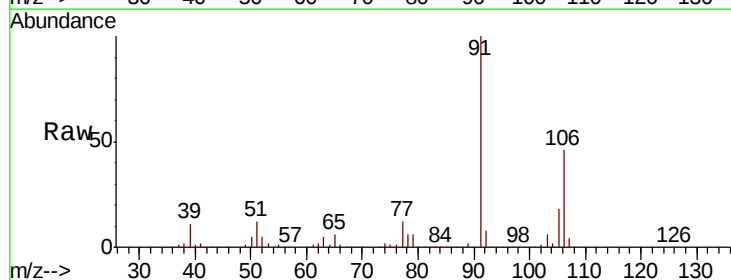
Instrument :
MSVOA_D
ClientSampleId :
OILY-SOIL

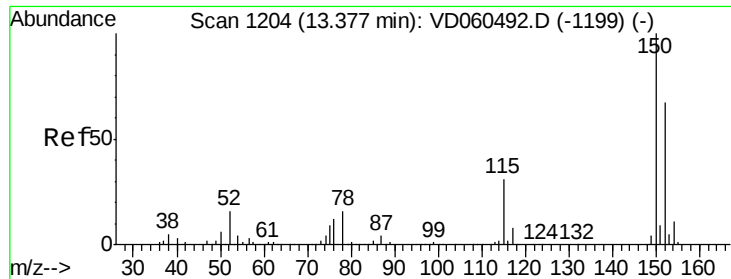
Tot Ion:106 Resp: 402146
Ion Ratio Lower Upper
106 100
91 216.5 103.4 310.1



#70
Styrene
Concen: 22.528 ug/l
RT: 11.92 min Scan# 1057
Delta R.T. -0.04 min
Lab File: VD060513.D
Acq: 7 Dec 2018 12:53

Tgt Ion:104 Resp: 19240
Ion Ratio Lower Upper
104 100
78 274.1 32.1 48.1#
103 271.2 37.2 55.8#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.36 min Scan# 1203

Delta R.T. -0.02 min

Lab File: VD060513.D

Acq: 7 Dec 2018 12:53

Instrument :

MSVOA_D

ClientSampleId :

OILY-SOIL

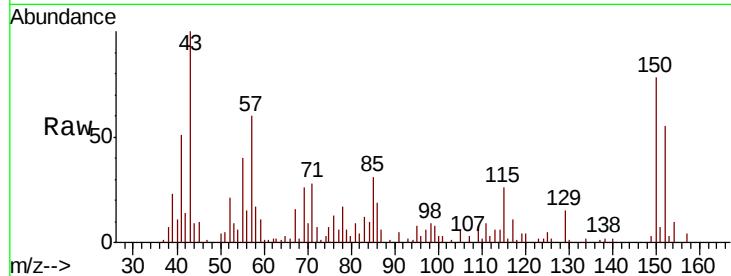
Tot Ion:152 Resp: 28233

Ion Ratio Lower Upper

152 100

115 47.0 24.6 74.0

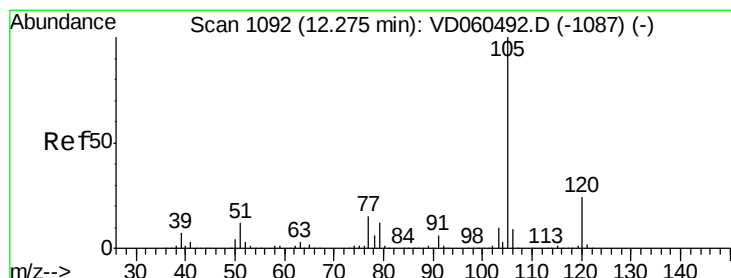
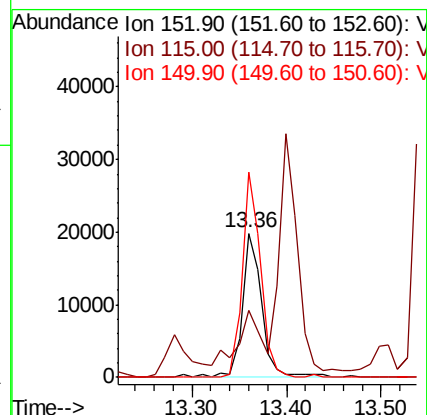
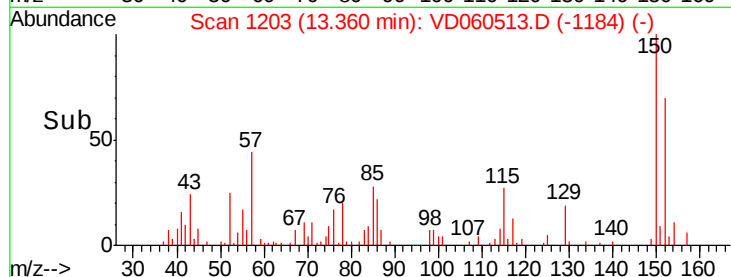
150 142.6 0.0 309.0



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: 29.107 ug/l

RT: 12.27 min Scan# 1092

Delta R.T. -0.01 min

Lab File: VD060513.D

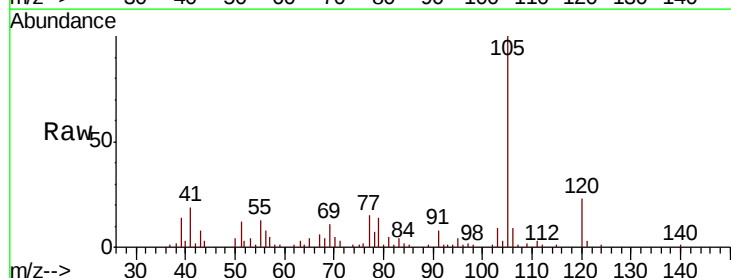
Acq: 7 Dec 2018 12:53

Tgt Ion:105 Resp: 58151

Ion Ratio Lower Upper

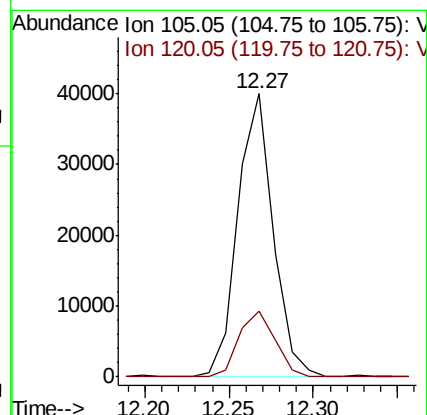
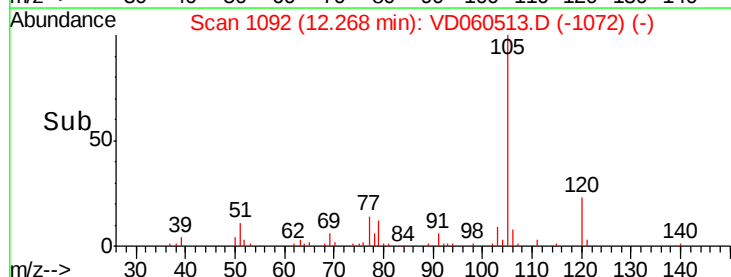
105 100

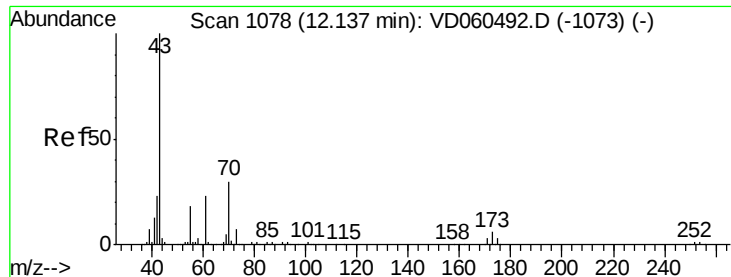
120 23.3 11.9 35.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#74

N-amvl acetate

Concen: 44.428 ug/l

RT: 12.19 min Scan# 1084

Delta R.T. 0.05 min

Lab File: VD060513.D

Acq: 7 Dec 2018 12:53

Instrument :

MSVOA_D

ClientSampleId :

OILY-SOIL

Tot Ion: 43 Resp: 21452

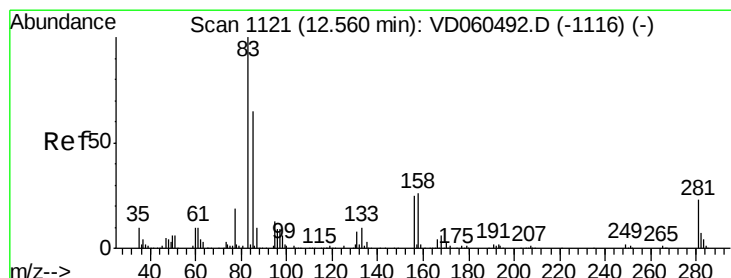
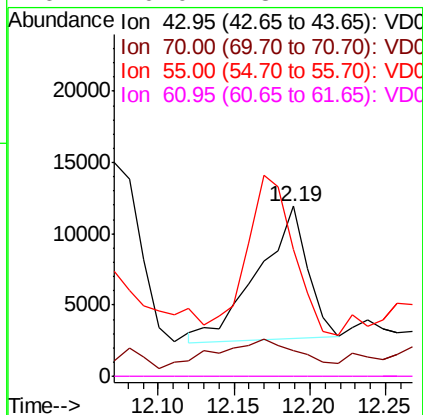
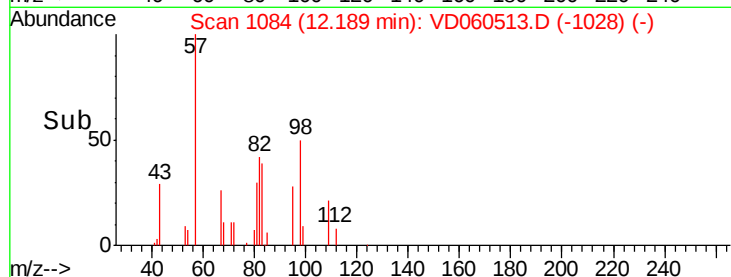
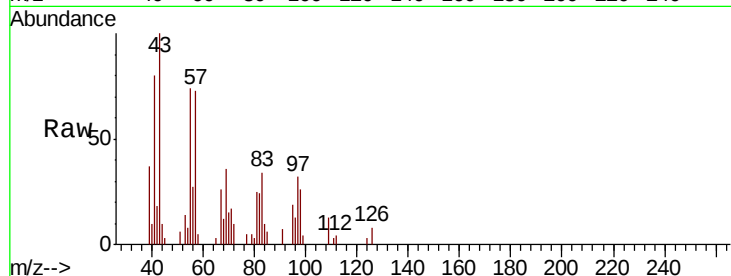
Ion Ratio Lower Upper

43 100

70 15.4 23.8 35.8#

55 74.3 14.2 21.2#

61 0.0 18.1 27.1#



#75

1,1,2,2-Tetrachloroethane

Concen: 19.194 ug/l

RT: 12.58 min Scan# 1124

Delta R.T. 0.02 min

Lab File: VD060513.D

Acq: 7 Dec 2018 12:53

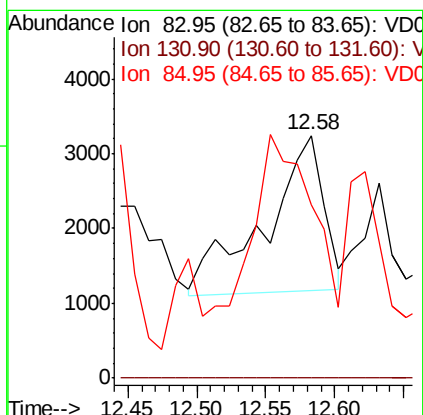
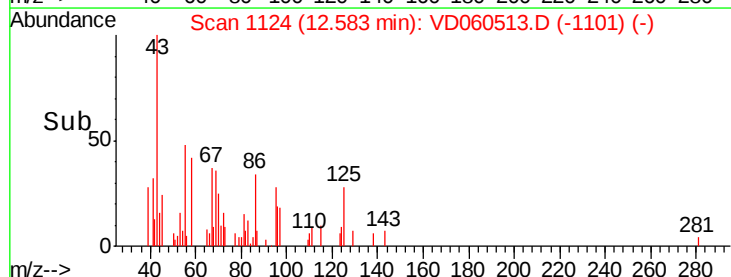
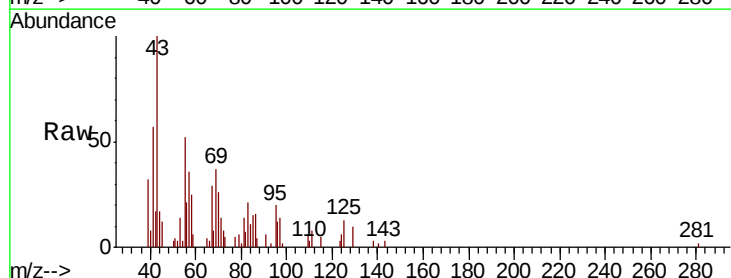
Tgt Ion: 83 Resp: 6139

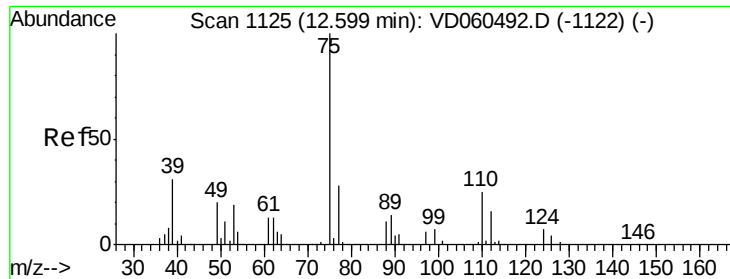
Ion Ratio Lower Upper

83 100

131 0.0 3.8 11.4#

85 71.3 32.3 96.9

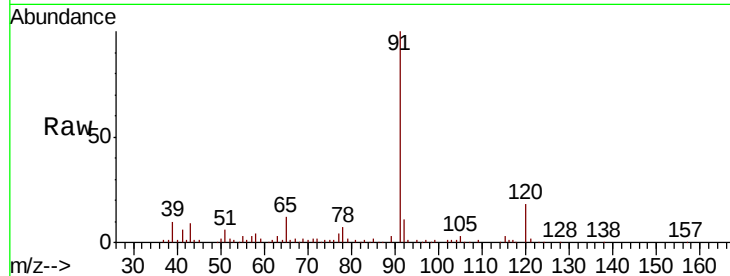




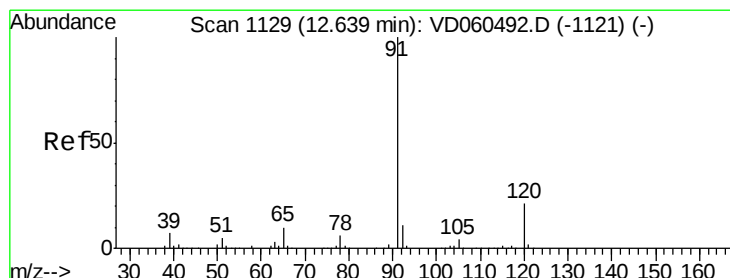
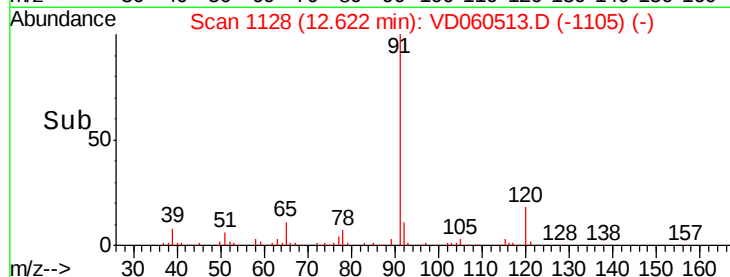
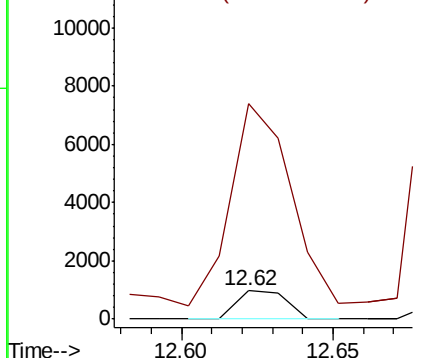
#76
 1,2,3-Trichloropropane
 Concen: 3.414 ug/l
 RT: 12.62 min Scan# 1128
 Delta R.T. 0.02 min
 Lab File: VD060513.D
 Acq: 7 Dec 2018 12:53

Instrument :
 MSVOA_D
 ClientSampleId :
 OILY-SOIL

Tot Ion: 75 Resp: 1092
 Ion Ratio Lower Upper
 75 100
 77 759.8 16.4 49.4#

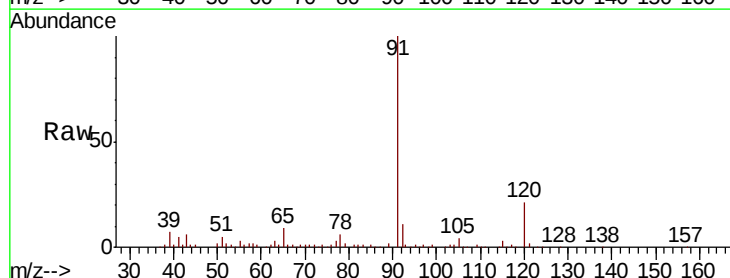


Abundance Ion 75.00 (74.70 to 75.70): VDC
 Ion 76.95 (76.65 to 77.65): VDC

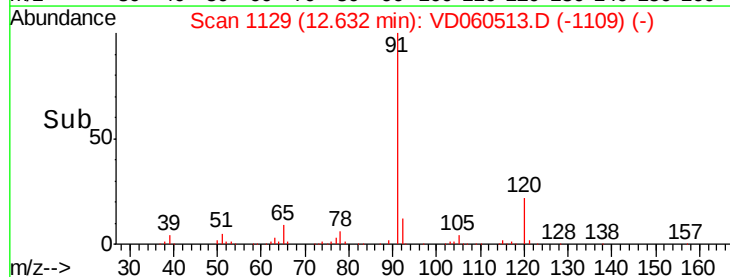
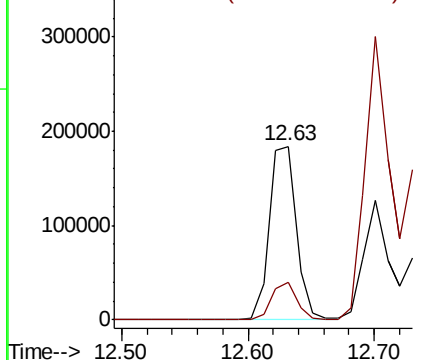


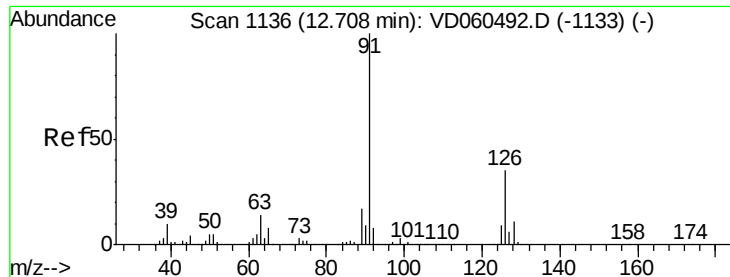
#78
 n-propylbenzene
 Concen: 108.531 ug/l
 RT: 12.63 min Scan# 1129
 Delta R.T. -0.01 min
 Lab File: VD060513.D
 Acq: 7 Dec 2018 12:53

Tgt Ion: 91 Resp: 274094
 Ion Ratio Lower Upper
 91 100
 120 21.4 10.4 31.1



Abundance Ion 91.00 (90.70 to 91.70): VDC
 Ion 120.05 (119.75 to 120.75): V

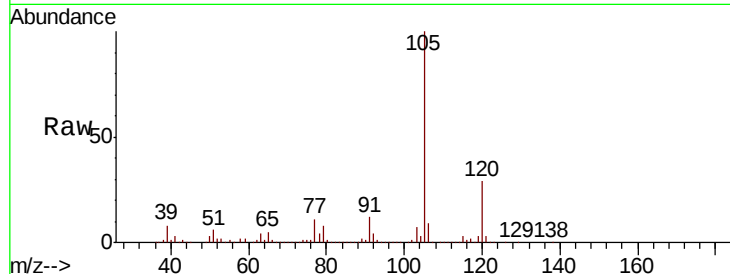




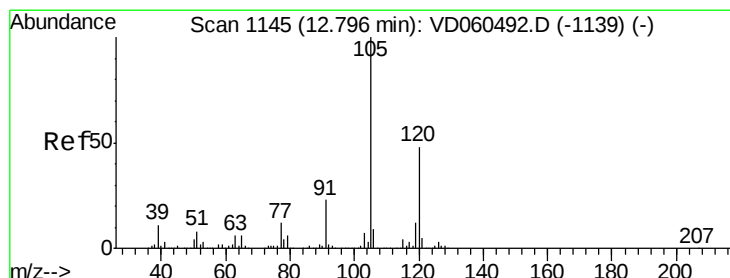
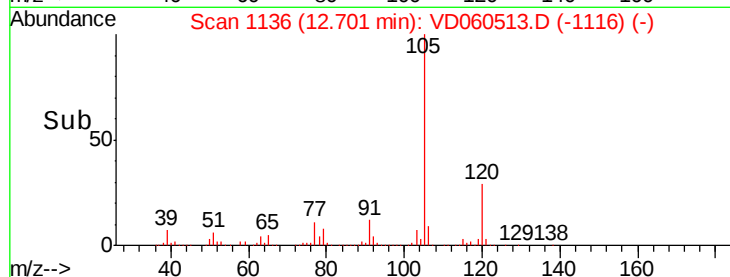
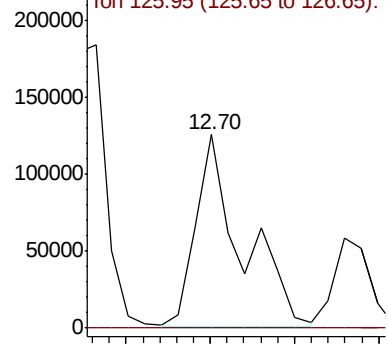
#79
 2-Chlorotoluene
 Concen: 173.050 ug/l
 RT: 12.70 min Scan# 1136
 Delta R.T. -0.01 min
 Lab File: VD060513.D
 Acq: 7 Dec 2018 12:53

Instrument :
 MSVOA_D
 ClientSampleId :
 OILY-SOIL

Tot Ion: 91 Resp: 237150
 Ion Ratio Lower Upper
 91 100
 126 0.4 17.3 52.0#

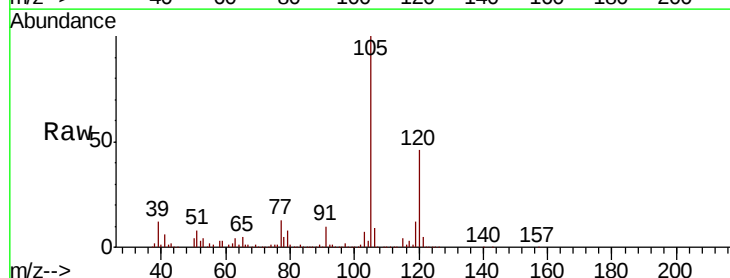


Abundance Ion 91.00 (90.70 to 91.70): V
 Ion 125.95 (125.65 to 126.65): V

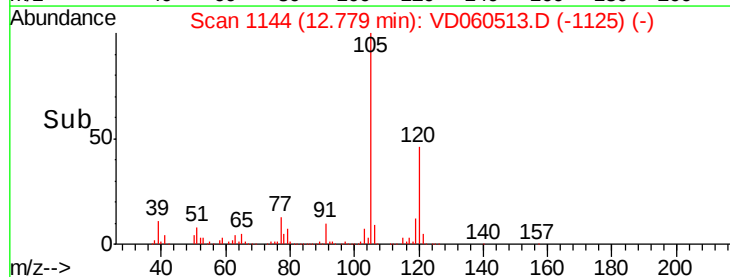
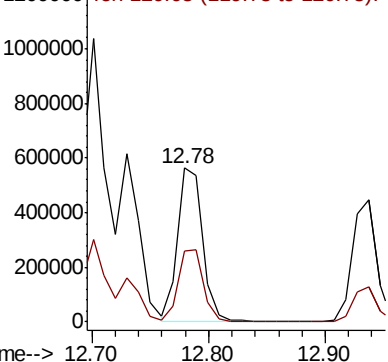


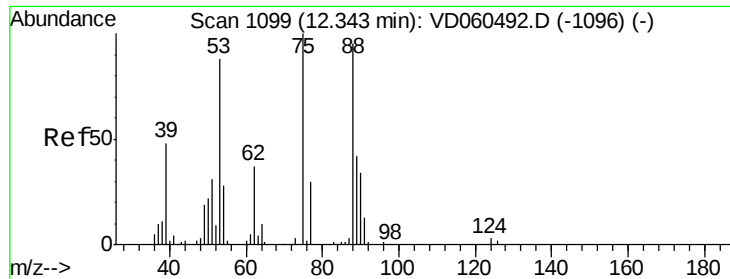
#80
 1,3,5-Trimethylbenzene
 Concen: 546.649 ug/l
 RT: 12.78 min Scan# 1144
 Delta R.T. -0.02 min
 Lab File: VD060513.D
 Acq: 7 Dec 2018 12:53

Tgt Ion: 105 Resp: 834519
 Ion Ratio Lower Upper
 105 100
 120 46.0 24.2 72.6



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: 90.696 ug/l

RT: 12.42 min Scan# 1107

Delta R.T. 0.07 min

Lab File: VD060513.D

Acq: 7 Dec 2018 12:53

Instrument :

MSVOA_D

ClientSampleId :

OILY-SOIL

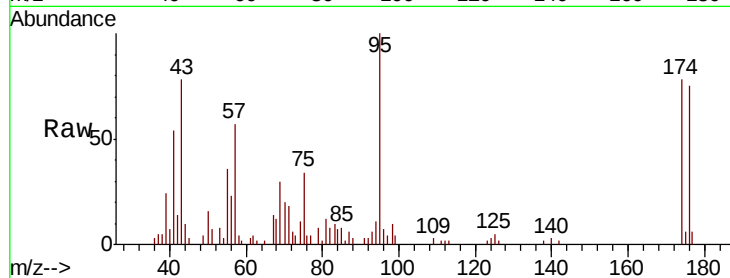
Tot Ion: 75 Resp: 8092

Ion Ratio Lower Upper

75 100

53 23.3 70.5 105.7#

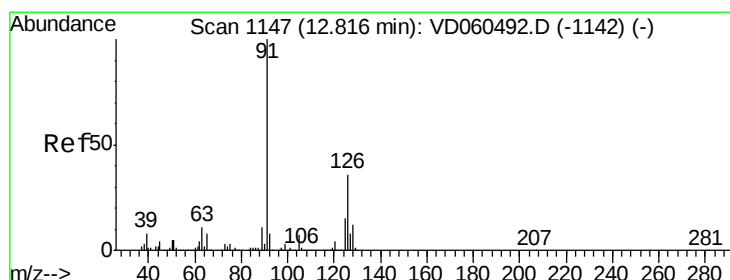
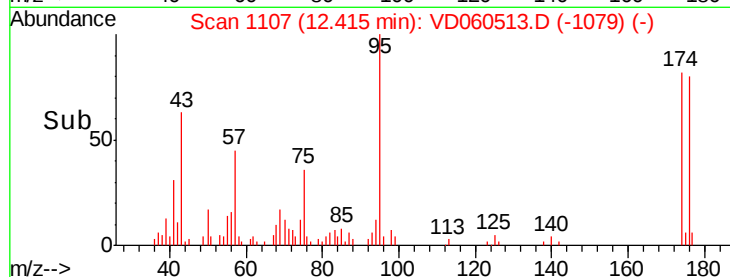
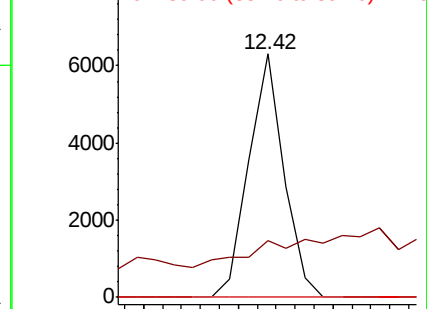
89 0.0 33.6 50.4#



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: 55.073 ug/l

RT: 12.78 min Scan# 1144

Delta R.T. -0.04 min

Lab File: VD060513.D

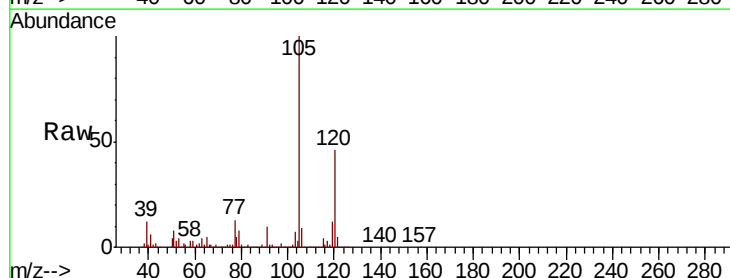
Acq: 7 Dec 2018 12:53

Tgt Ion: 91 Resp: 84768

Ion Ratio Lower Upper

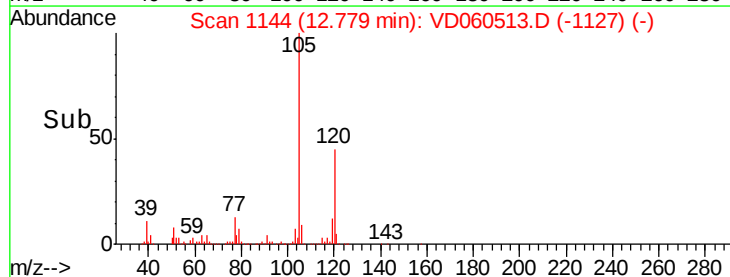
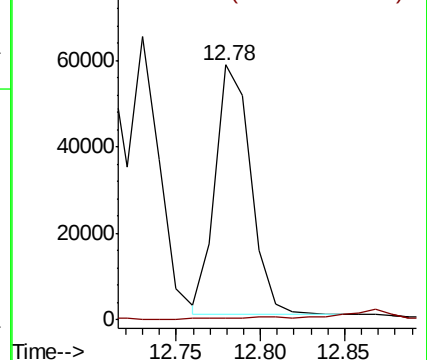
91 100

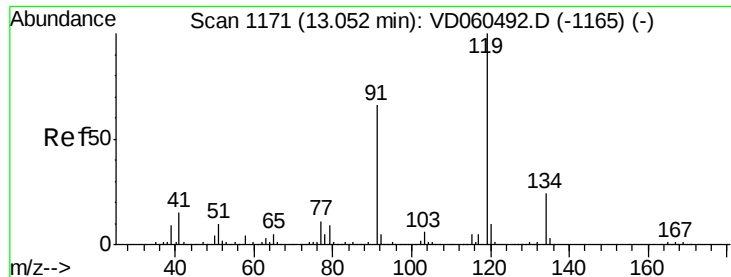
126 0.5 17.8 53.4#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V





#83

tert-Butylbenzene

Concen: 211.686 ug/l

RT: 13.08 min Scan# 1175

Delta R.T. 0.03 min

Lab File: VD060513.D

Acq: 7 Dec 2018 12:53

Instrument :

MSVOA_D

ClientSampleId :

OILY-SOIL

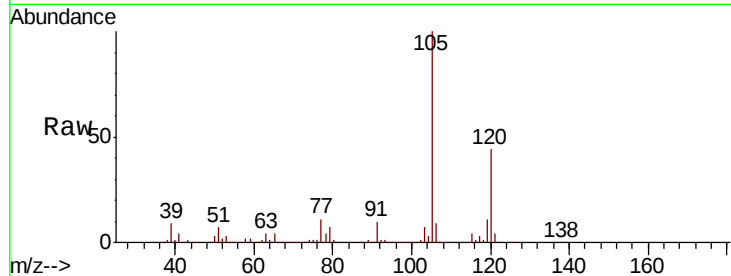
Tot Ion:119 Resp: 362339

Ion Ratio Lower Upper

119 100

91 88.5 33.1 99.2

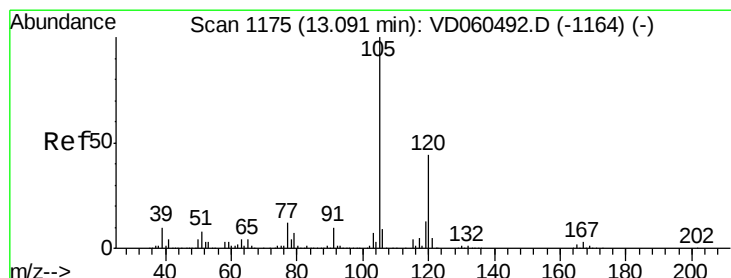
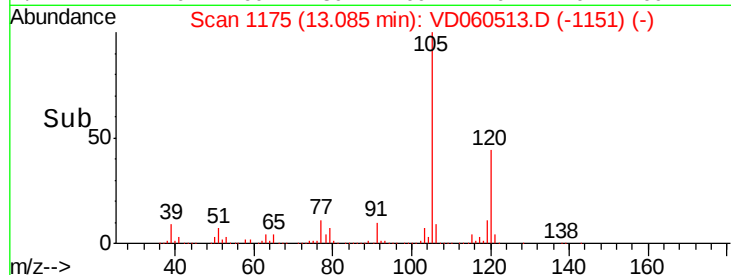
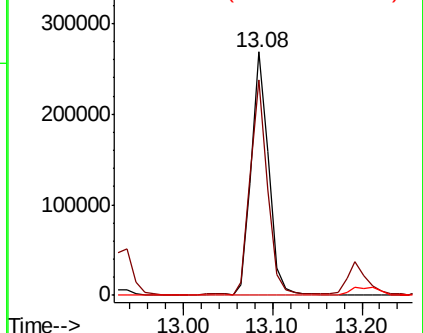
134 0.0 12.0 36.0#



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 1982.659 ug/l

RT: 13.08 min Scan# 1175

Delta R.T. -0.01 min

Lab File: VD060513.D

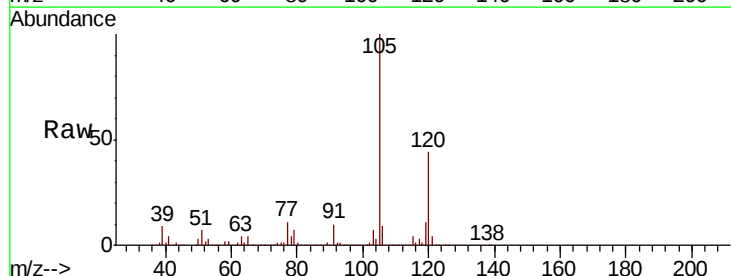
Acq: 7 Dec 2018 12:53

Tgt Ion:105 Resp: 3134015

Ion Ratio Lower Upper

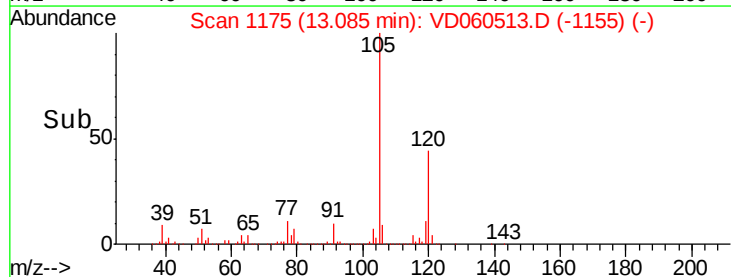
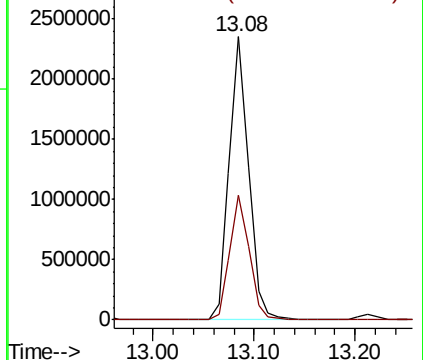
105 100

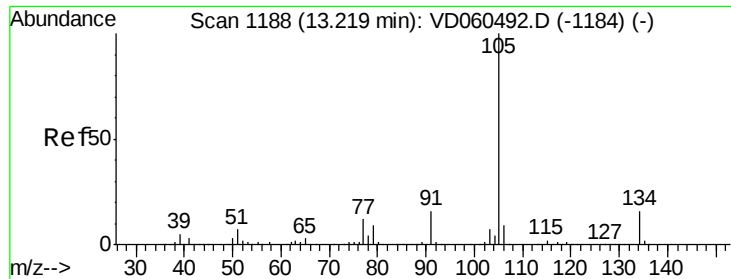
120 44.2 22.3 66.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

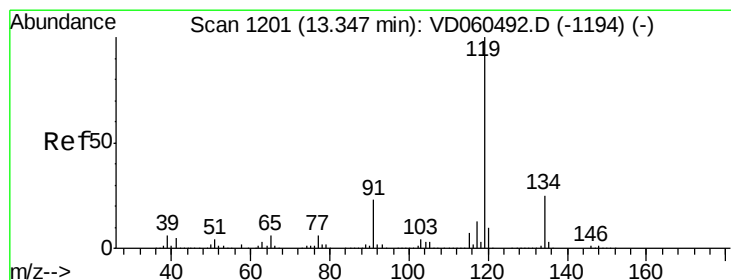
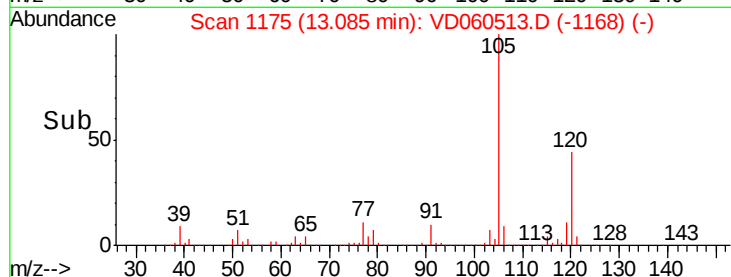
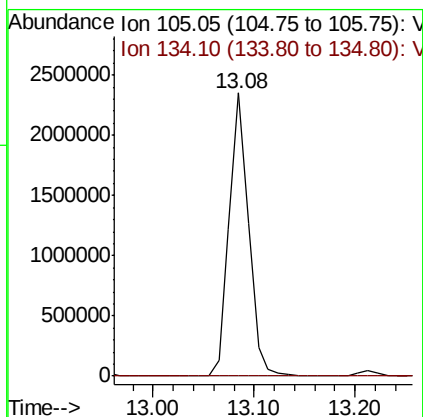
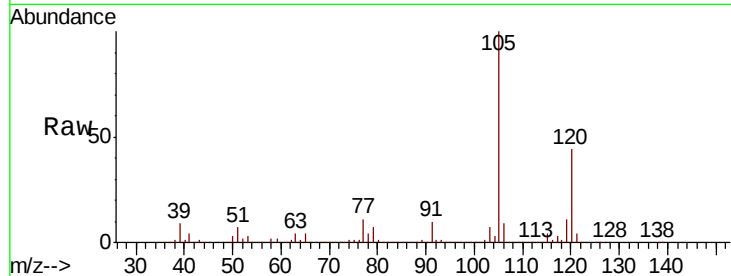




#85
 sec-Butylbenzene
 Concen: 1469.022 ug/l
 RT: 13.08 min Scan# 1175
 Delta R.T. -0.13 min
 Lab File: VD060513.D
 Acq: 7 Dec 2018 12:53

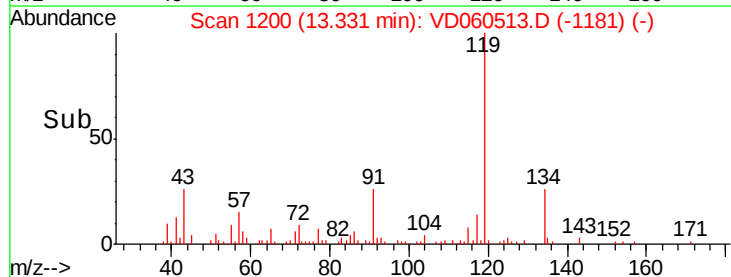
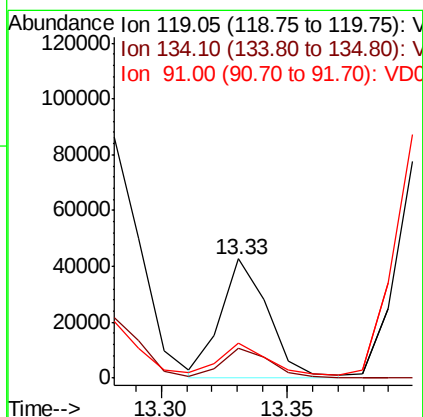
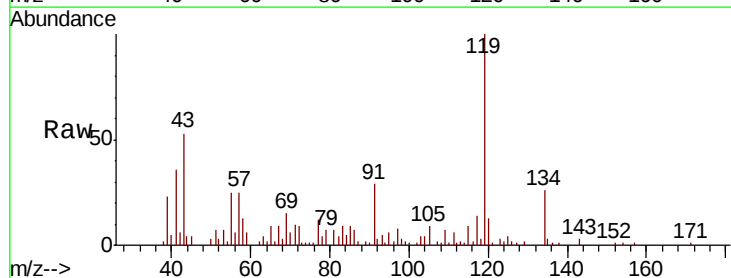
Instrument :
 MSVOA_D
 ClientSampled :
 OILY-SOIL

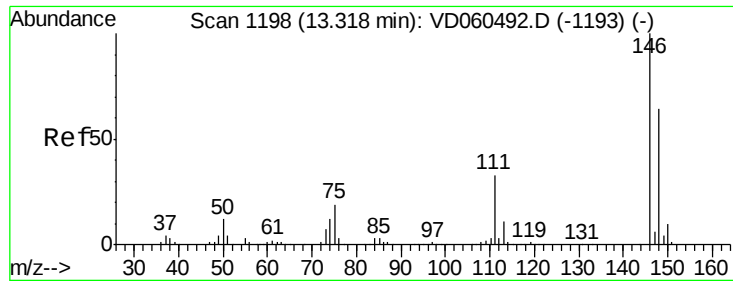
Tot Ion:105 Resp: 3134015
 Ion Ratio Lower Upper
 105 100
 134 0.0 7.9 23.7#



#86
 p-Isopropyltoluene
 Concen: 32.354 ug/l
 RT: 13.33 min Scan# 1200
 Delta R.T. -0.02 min
 Lab File: VD060513.D
 Acq: 7 Dec 2018 12:53

Tgt Ion:119 Resp: 54716
 Ion Ratio Lower Upper
 119 100
 134 25.6 12.5 37.5
 91 29.4 11.5 34.4





#87

1,3-Dichlorobenzene

Concen: 1.989 ug/l

RT: 13.30 min Scan# 1197

Delta R.T. -0.02 min

Lab File: VD060513.D

Acq: 7 Dec 2018 12:53

Instrument :

MSVOA_D

ClientSampleId :

OILY-SOIL

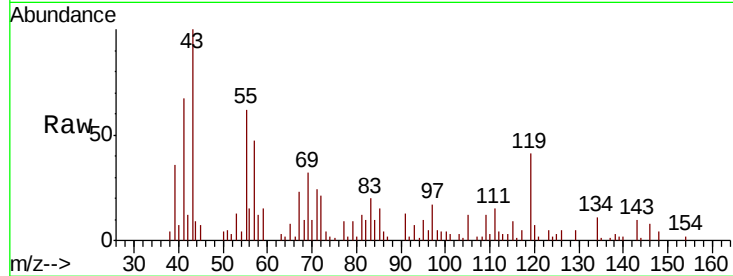
Tot Ion:146 Resp: 1891

Ion Ratio Lower Upper

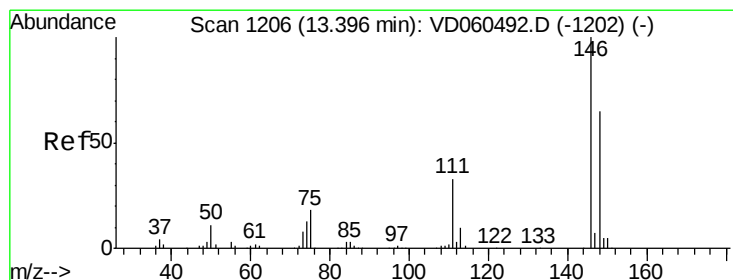
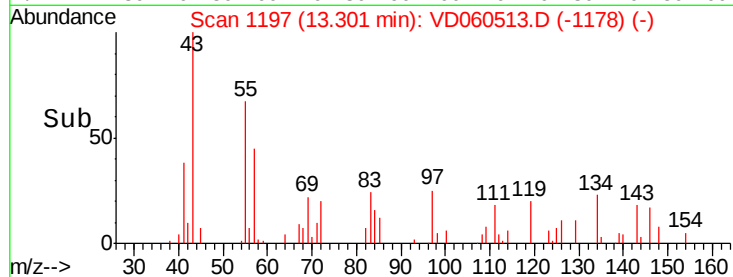
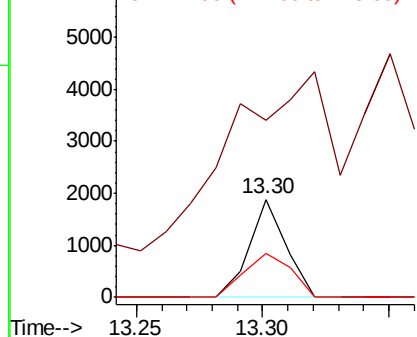
146 100

111 181.9 16.5 49.5#

148 44.5 32.3 96.8



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



#88

1,4-Dichlorobenzene

Concen: 2.458 ug/l

RT: 13.38 min Scan# 1205

Delta R.T. -0.02 min

Lab File: VD060513.D

Acq: 7 Dec 2018 12:53

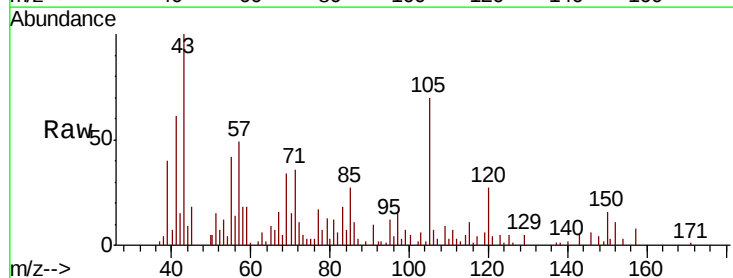
Tgt Ion:146 Resp: 2293

Ion Ratio Lower Upper

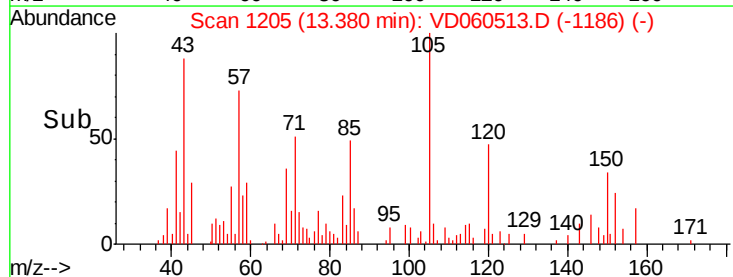
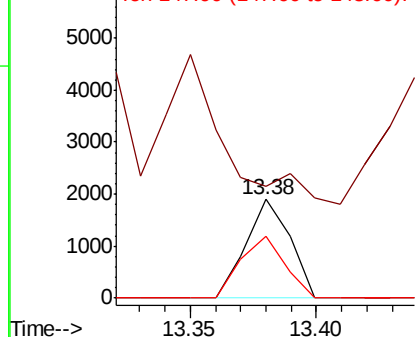
146 100

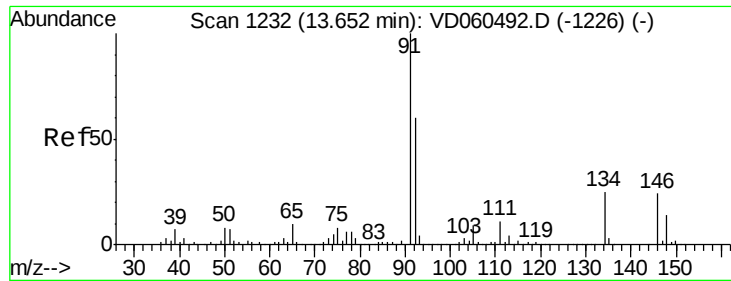
111 113.4 16.4 49.1#

148 62.0 32.6 98.0



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

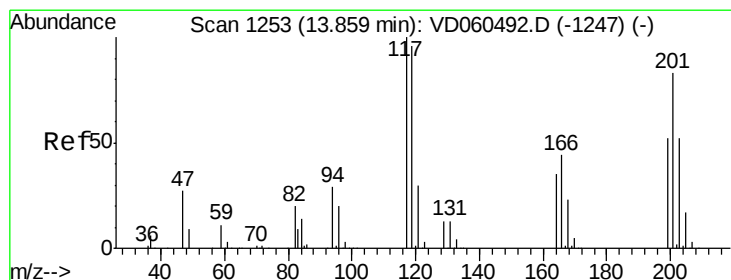
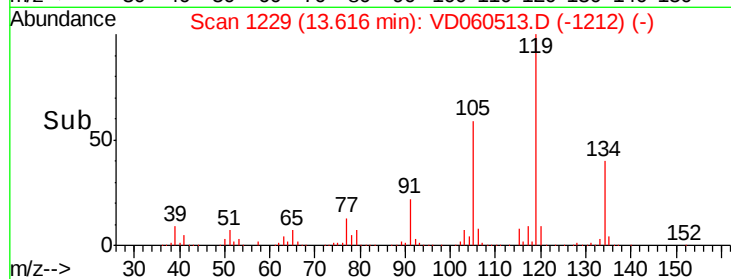
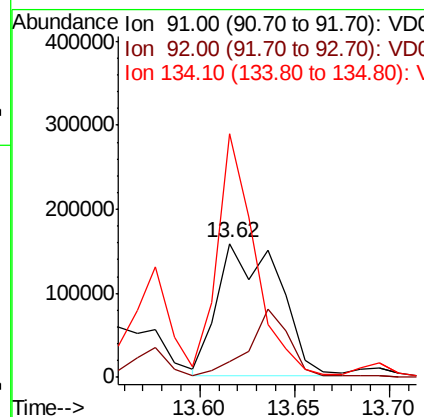
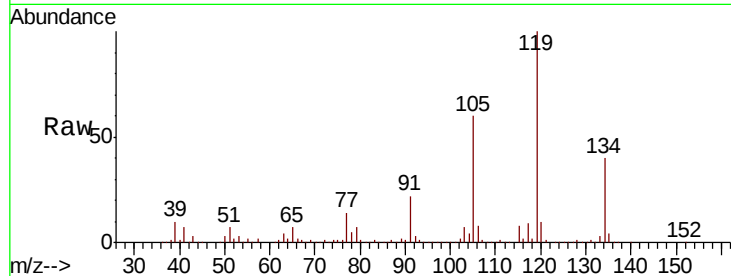




#89
n-Butylbenzene
Concen: Below Cal
RT: 13.62 min Scan# 1229
Delta R.T. -0.04 min
Lab File: VD060513.D
Acq: 7 Dec 2018 12:53

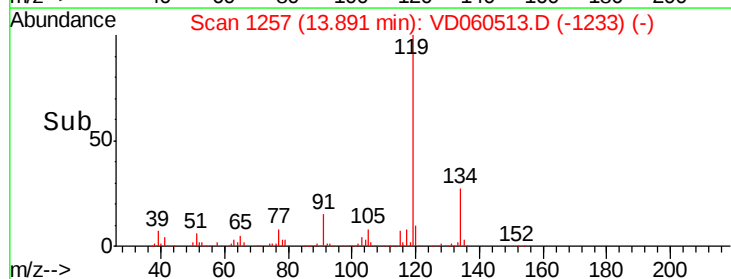
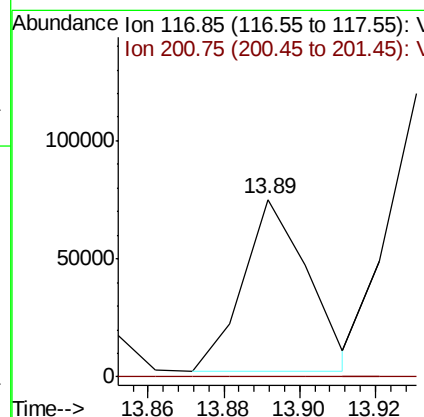
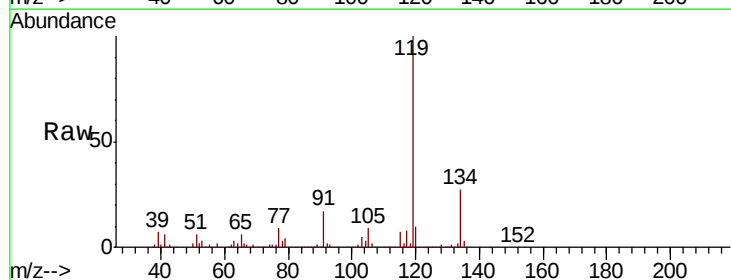
Instrument :
MSVOA_D
ClientSampleId :
OILY-SOIL

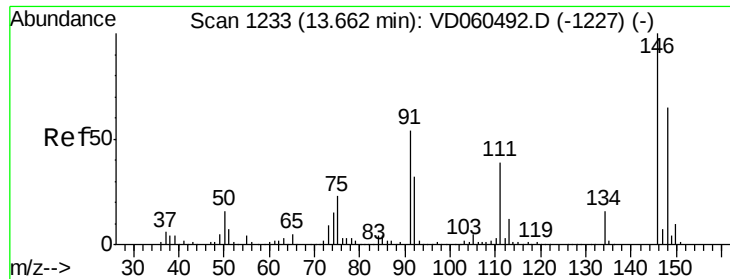
Tot Ion: 91 Resp: 359266
Ion Ratio Lower Upper
91 100
92 12.1 30.0 90.1#
134 181.7 12.5 37.5#



#90
Hexachloroethane
Concen: 204.320 ug/l
RT: 13.89 min Scan# 1257
Delta R.T. 0.03 min
Lab File: VD060513.D
Acq: 7 Dec 2018 12:53

Tgt Ion: 117 Resp: 86636
Ion Ratio Lower Upper
117 100
201 0.0 41.3 123.9#





#91

1,2-Dichlorobenzene

Concen: 1.791 ug/l

RT: 13.66 min Scan# 1233

Delta R.T. -0.01 min

Lab File: VD060513.D

Acq: 7 Dec 2018 12:53

Instrument :

MSVOA_D

ClientSampleId :

OILY-SOIL

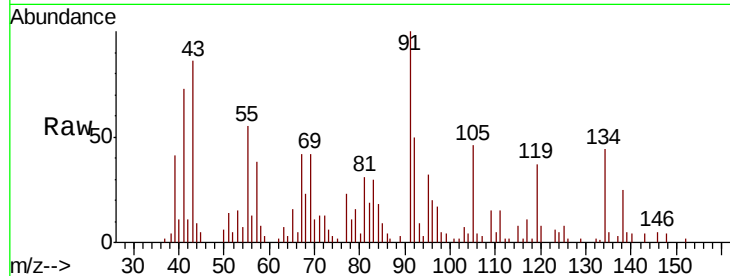
Tot Ion:146 Resp: 1392

Ion Ratio Lower Upper

146 100

111 316.9 19.3 57.8#

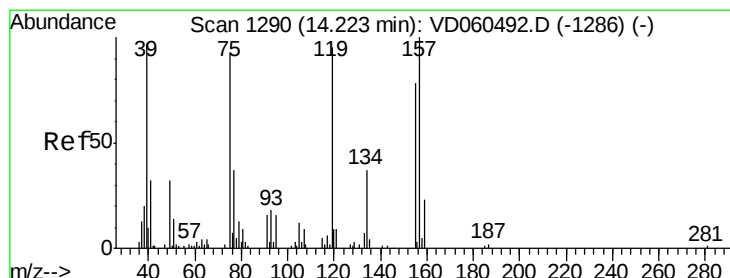
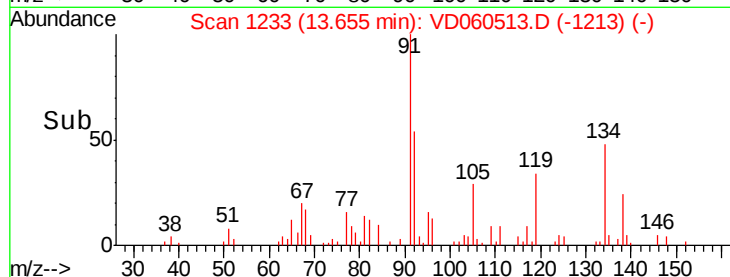
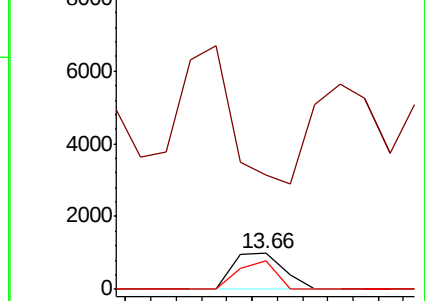
148 78.1 32.3 96.8



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 167.540 ug/l

RT: 14.22 min Scan# 1290

Delta R.T. -0.01 min

Lab File: VD060513.D

Acq: 7 Dec 2018 12:53

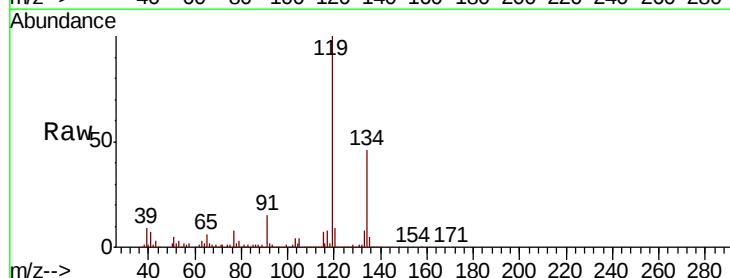
Tgt Ion: 75 Resp: 6493

Ion Ratio Lower Upper

75 100

155 0.0 41.6 124.9#

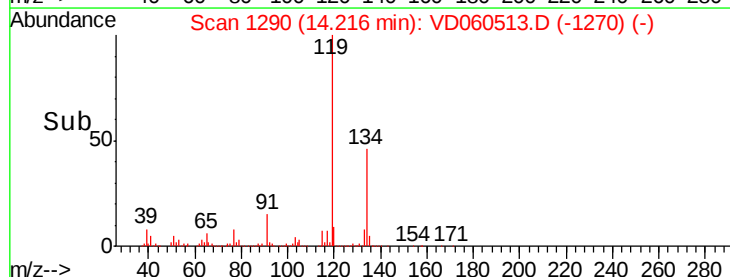
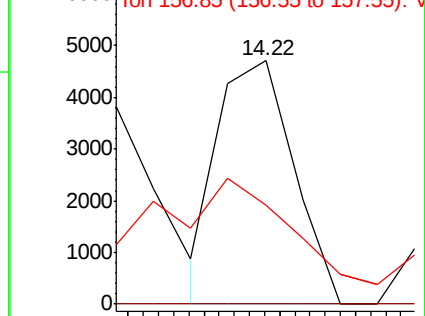
157 40.7 53.6 160.8#

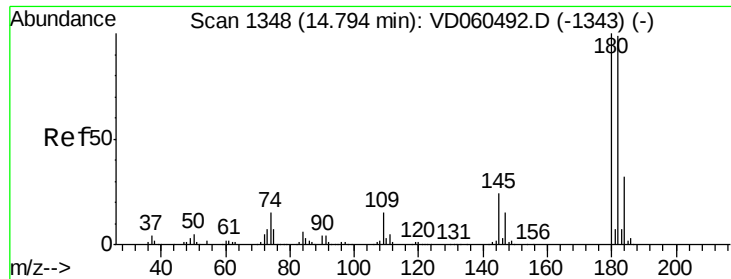


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

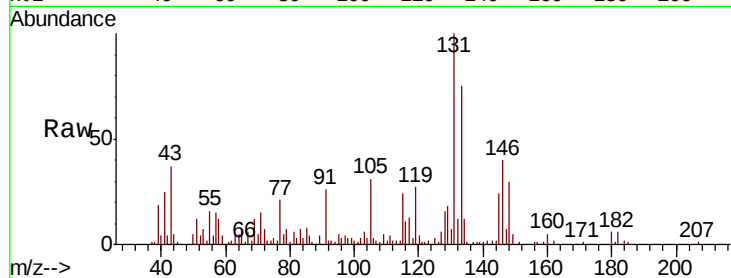




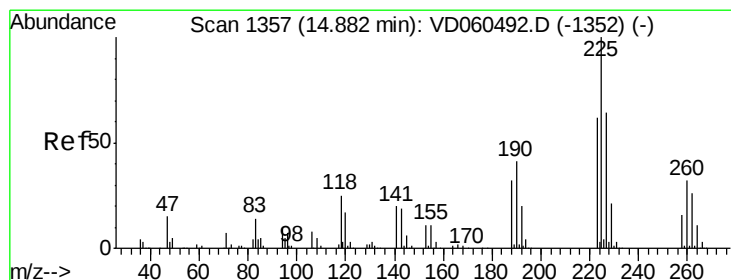
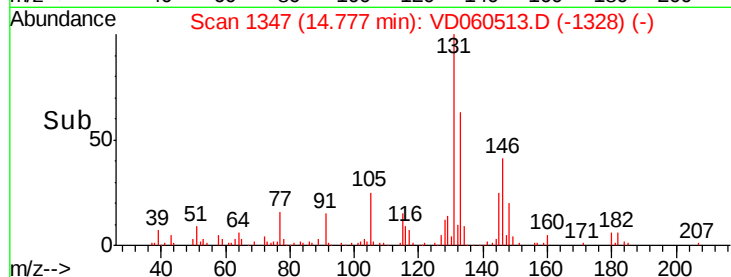
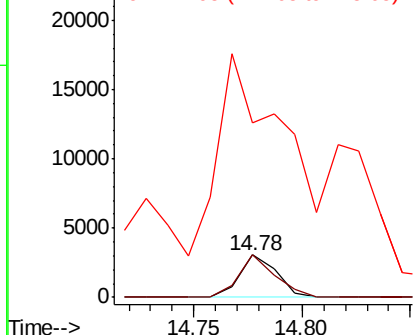
#93
 1,2,4-Trichlorobenzene
 Concen: 6.053 ug/l
 RT: 14.78 min Scan# 1347
 Delta R.T. -0.02 min
 Lab File: VD060513.D
 Acq: 7 Dec 2018 12:53

Instrument :
 MSVOA_D
 ClientSampleId :
 OILY-SOIL

Tot Ion:180 Resp: 3677
 Ion Ratio Lower Upper
 180 100
 182 100.2 49.4 148.0
 145 412.4 11.9 35.9#

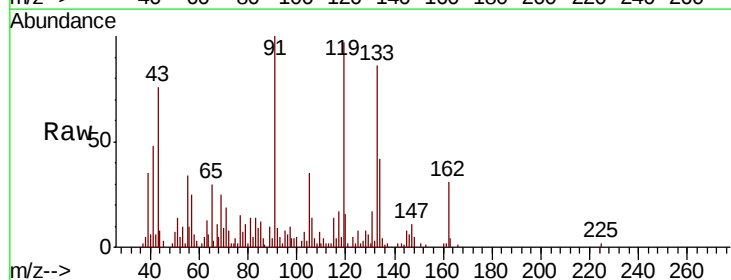


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

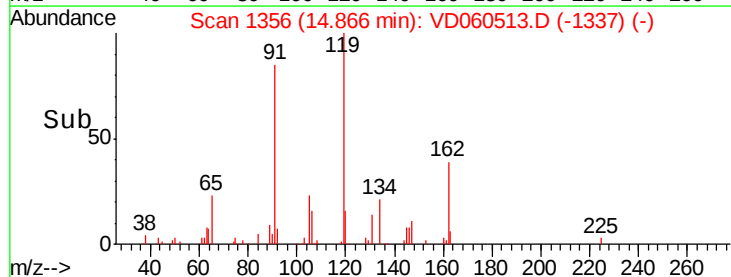
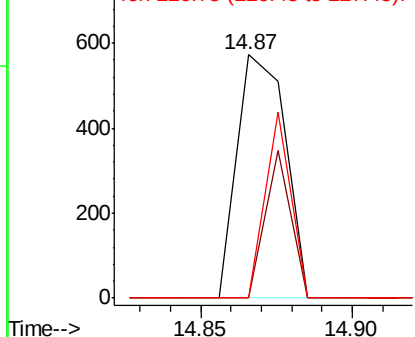


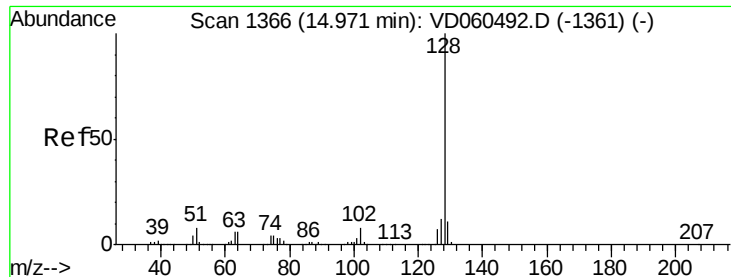
#94
 Hexachlorobutadiene
 Concen: 1.428 ug/l
 RT: 14.87 min Scan# 1356
 Delta R.T. -0.02 min
 Lab File: VD060513.D
 Acq: 7 Dec 2018 12:53

Tgt Ion:225 Resp: 640
 Ion Ratio Lower Upper
 225 100
 223 0.0 31.2 93.6#
 227 0.0 32.0 96.0#



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

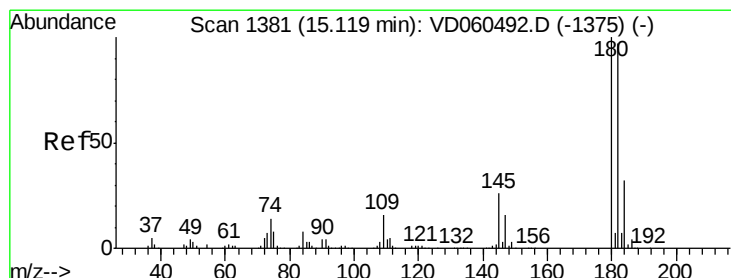
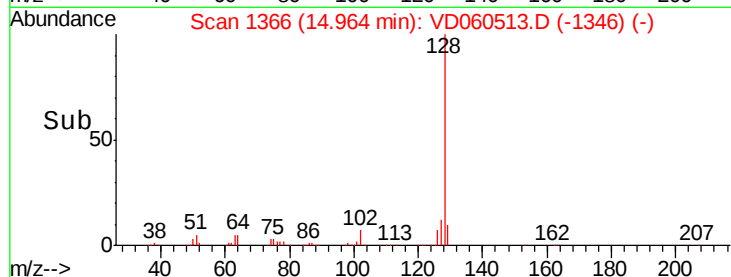
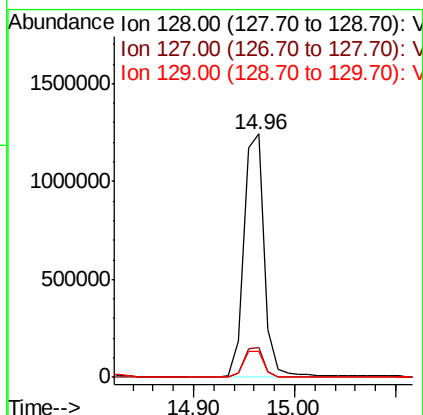
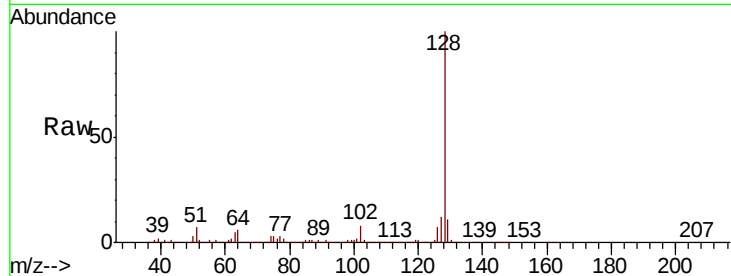




#95
Naphthalene
Concen: 2421.331 ug/l
RT: 14.96 min Scan# 1366
Delta R.T. -0.01 min
Lab File: VD060513.D
Acq: 7 Dec 2018 12:53

Instrument :
MSVOA_D
ClientSampleId :
OILY-SOIL

Tot Ion:128 Resp: 1749755
Ion Ratio Lower Upper
128 100
127 12.1 9.8 14.8
129 10.8 8.6 13.0



#96
1,2,3-Trichlorobenzene
Concen: 7.399 ug/l
RT: 15.10 min Scan# 1380
Delta R.T. -0.02 min
Lab File: VD060513.D
Acq: 7 Dec 2018 12:53

Tgt Ion:180 Resp: 3581
Ion Ratio Lower Upper
180 100
182 92.1 48.5 145.5
145 288.7 12.9 38.7#

