

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070720\
 Data File : VD065932.D
 Acq On : 07 Jul 2020 20:26
 Operator : VA/SY
 Sample : L3216-02 5PPBL00
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2020

Quant Time: Jul 08 09:57:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D070720S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 08 09:53:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	393453	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	623677	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	581134	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	281899	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	172706	49.53	ug/l	0.00
Spiked Amount			Recovery	=	99.06%	
35) Dibromofluoromethane	7.92	113	181587	47.20	ug/l	0.00
Spiked Amount			Recovery	=	94.40%	
50) Toluene-d8	10.34	98	659388	46.97	ug/l	0.00
Spiked Amount			Recovery	=	93.94%	
62) 4-Bromofluorobenzene	12.63	95	234361	48.62	ug/l	0.00
Spiked Amount			Recovery	=	97.24%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	20958	5.992	ug/l	99
3) Chloromethane	2.20	50	19166	5.527	ug/l	91
4) Vinyl Chloride	2.35	62	16316	5.125	ug/l	94
5) Bromomethane	2.77	94	11341	5.623	ug/l	89
6) Chloroethane	2.92	64	9638	5.064	ug/l	92
7) Trichlorofluoromethane	3.27	101	36661	5.373	ug/l	91
8) Diethyl Ether	3.71	74	9444	5.045	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	4.10	101	21599	5.292	ug/l	96
10) Methyl Iodide	4.30	142	18085	4.665	ug/l #	92
11) Tert butyl alcohol	5.21	59	10820	43.270	ug/l #	71
12) 1,1-Dichloroethene	4.07	96	20431	5.358	ug/l	98
13) Acrolein	3.93	56	4607	22.394	ug/l	86
14) Allyl chloride	4.72	41	33117	5.125	ug/l	100
15) Acrylonitrile	5.44	53	21296	25.983	ug/l	98
16) Acetone	4.16	43	18921	23.154	ug/l	93
17) Carbon Disulfide	4.41	76	65164	5.363	ug/l	96
18) Methyl Acetate	4.72	43	12853	6.710	ug/l #	73
19) Methyl tert-butyl Ether	5.48	73	42109	5.216	ug/l	94
20) Methylene Chloride	4.96	84	60520	10.425	ug/l	94
21) trans-1,2-Dichloroethene	5.47	96	22483	5.241	ug/l	89
22) Diisopropyl ether	6.36	45	63986	5.269	ug/l	93
23) Vinyl Acetate	6.31	43	160627	23.173	ug/l	97
24) 1,1-Dichloroethane	6.27	63	38379	5.300	ug/l	97
25) 2-Butanone	7.21	43	29339	27.170	ug/l	93
26) 2,2-Dichloropropane	7.21	77	32939	5.200	ug/l	99
27) cis-1,2-Dichloroethene	7.21	96	25018	5.427	ug/l	96
28) Bromochloromethane	7.55	49	13810	5.049	ug/l	99
29) Tetrahydrofuran	7.57	42	17671	25.735	ug/l	99
30) Chloroform	7.71	83	39386	5.365	ug/l	99
31) Cyclohexane	7.98	56	40022	5.617	ug/l #	80
32) 1,1,1-Trichloroethane	7.90	97	35196	5.254	ug/l	97
36) 1,1-Dichloropropene	8.11	75	31566	5.125	ug/l	98
37) Ethyl Acetate	7.29	43	12879	4.990	ug/l #	92
38) Carbon Tetrachloride	8.10	117	33057	5.007	ug/l	87

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	35220	4.657	ug/l	95
40) Benzene	8.36	78	87628	5.149	ug/l	98
41) Methacrylonitrile	7.54	41	9557	6.378	ug/l #	59
42) 1,2-Dichloroethane	8.43	62	25684	5.328	ug/l	99
43) Isopropyl Acetate	8.45	43	22822	4.751	ug/l	94
44) Trichloroethene	9.11	130	24839	4.968	ug/l	90
45) 1,2-Dichloropropane	9.38	63	22071	5.226	ug/l	96
46) Dibromomethane	9.48	93	10802	4.912	ug/l	95
47) Bromodichloromethane	9.67	83	29997	5.086	ug/l #	85
48) Methyl methacrylate	9.46	41	11552	4.777	ug/l	95
49) 1,4-Dioxane	9.46	88	2880	110.230	ug/l	93
51) 4-Methyl-2-Pentanone	10.23	43	59260	24.399	ug/l	96
52) Toluene	10.40	92	55942	5.167	ug/l	95
53) t-1,3-Dichloropropene	10.63	75	25684	4.631	ug/l	95
54) cis-1,3-Dichloropropene	10.09	75	32662	4.874	ug/l	95
55) 1,1,2-Trichloroethane	10.80	97	15361	5.070	ug/l	97
56) Ethyl methacrylate	10.66	69	18207	4.920	ug/l	96
57) 1,3-Dichloropropane	10.95	76	26629	5.026	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.94	63	43787	24.434	ug/l	98
59) 2-Hexanone	10.98	43	37815	22.639	ug/l	99
60) Dibromochloromethane	11.14	129	20700	5.001	ug/l	96
61) 1,2-Dibromoethane	11.25	107	14405	4.769	ug/l	96
64) Tetrachloroethene	10.88	164	23337	5.522	ug/l	94
65) Chlorobenzene	11.67	112	60639	5.178	ug/l	93
66) 1,1,1,2-Tetrachloroethane	11.74	131	22769	5.198	ug/l	97
67) Ethyl Benzene	11.75	91	103567	4.978	ug/l	98
68) m/p-Xylenes	11.86	106	77593	9.817	ug/l	99
69) o-Xylene	12.18	106	36471	5.065	ug/l	95
70) Styrene	12.20	104	61483	4.946	ug/l	97
71) Bromoform	12.37	173	11727	4.731	ug/l #	98
73) Isopropylbenzene	12.48	105	91810	4.667	ug/l	99
74) N-amyl acetate	12.29	43	20613	4.669	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.73	83	16385	5.016	ug/l	95
76) 1,2,3-Trichloropropane	12.78	75	21180	8.957	ug/l #	100
77) Bromobenzene	12.76	156	24731	5.183	ug/l	98
78) n-propylbenzene	12.83	91	114031	4.944	ug/l	100
79) 2-Chlorotoluene	12.91	91	65812	5.029	ug/l	98
80) 1,3,5-Trimethylbenzene	12.96	105	79965	4.969	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.53	75	5505	5.002	ug/l	93
82) 4-Chlorotoluene	13.01	91	68618	4.998	ug/l	97
83) tert-Butylbenzene	13.23	119	67060	4.891	ug/l	99
84) 1,2,4-Trimethylbenzene	13.27	105	78287	4.887	ug/l	99
85) sec-Butylbenzene	13.40	105	94584	4.868	ug/l	99
86) p-Isopropyltoluene	13.52	119	83121	4.677	ug/l	97
87) 1,3-Dichlorobenzene	13.52	146	45819	5.131	ug/l	99
88) 1,4-Dichlorobenzene	13.60	146	46908	5.266	ug/l	93
89) n-Butylbenzene	13.85	91	80879	4.846	ug/l	97
90) Hexachloroethane	14.11	117	17768	4.958	ug/l	100
91) 1,2-Dichlorobenzene	13.90	146	39044	5.003	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.51	75	2698	4.940	ug/l	95

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Quant Title : SW846 8260
QLast Update : Wed Jul 08 09:53:45 2020
Response via : Initial Calibration

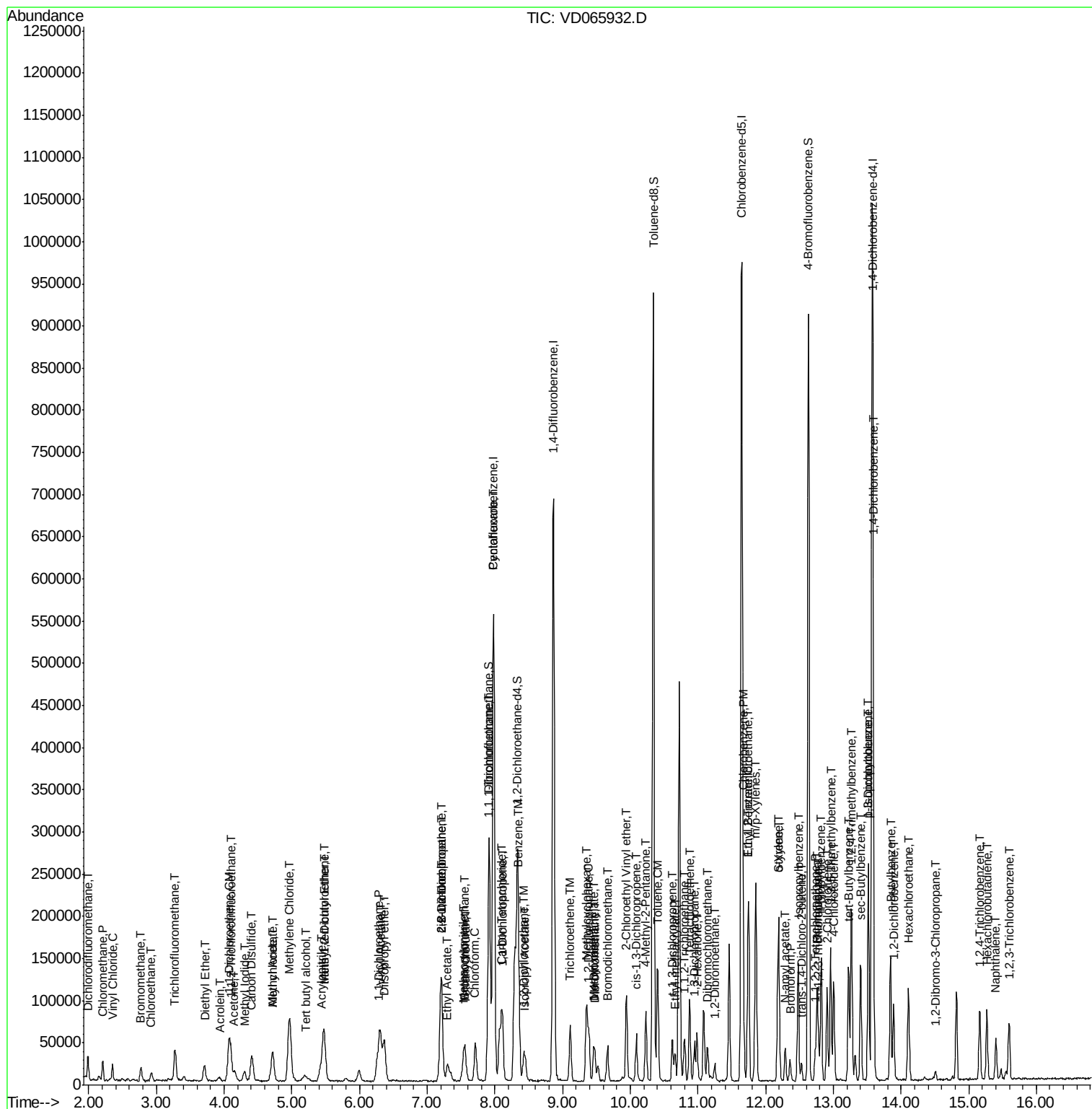
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.16	180	27751	4.989	ug/l	99
94) Hexachlorobutadiene	15.27	225	15360	4.565	ug/l	89
95) Naphthalene	15.40	128	42114	4.515	ug/l	99
96) 1,2,3-Trichlorobenzene	15.60	180	22754	4.743	ug/l	92

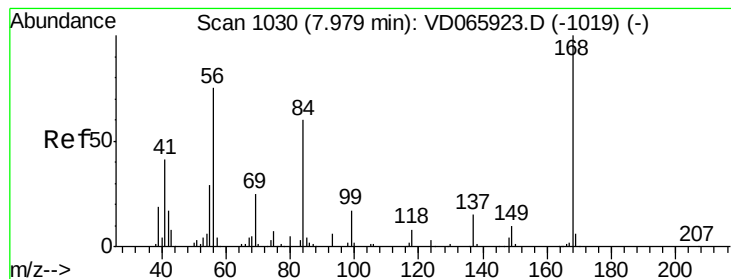
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jul 08 09:53:45 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

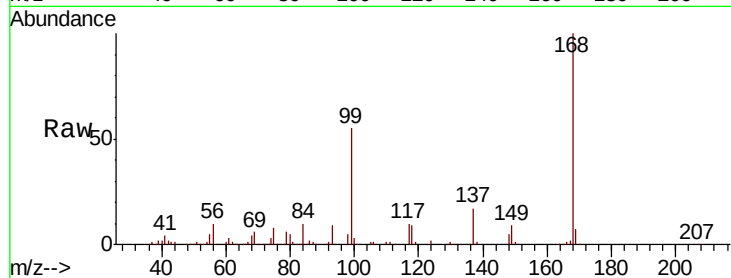
LOQ-SOIL-02-QT3-2020

Tot Ion:168 Resp: 393453

Ion Ratio Lower Upper

168 100

99 55.3 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

150000

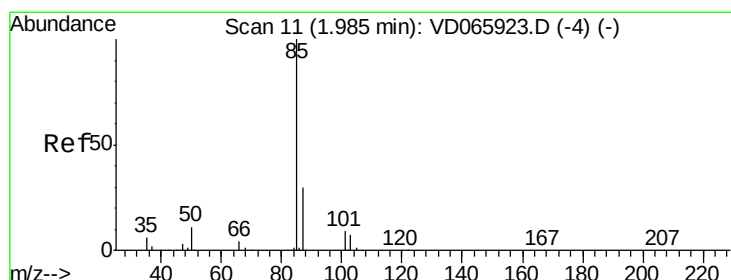
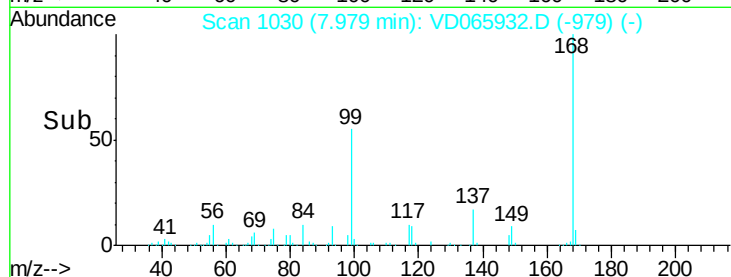
100000

50000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 5.992 ug/l

RT: 1.99 min Scan# 11

Delta R.T. -0.00 min

Lab File: VD065932.D

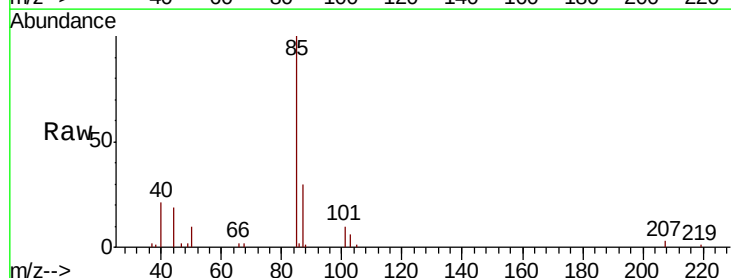
Acq: 07 Jul 2020 20:26

Tgt Ion: 85 Resp: 20958

Ion Ratio Lower Upper

85 100

87 30.4 14.9 44.9



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

15000

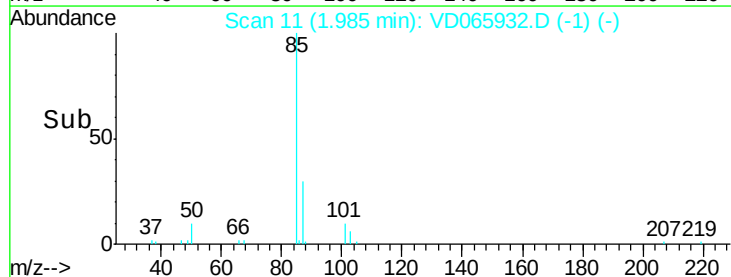
10000

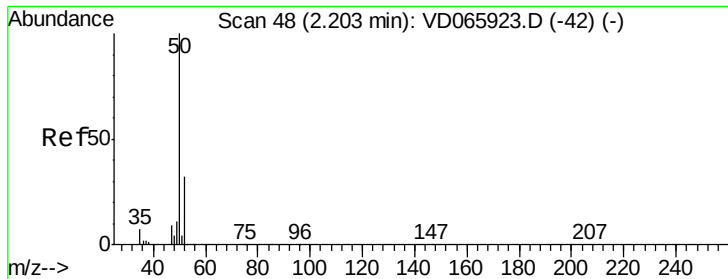
5000

0

1.95 2.00 2.05

Time-->





#3

Chloromethane

Concen: 5.527 ug/l

RT: 2.20 min Scan# 48

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

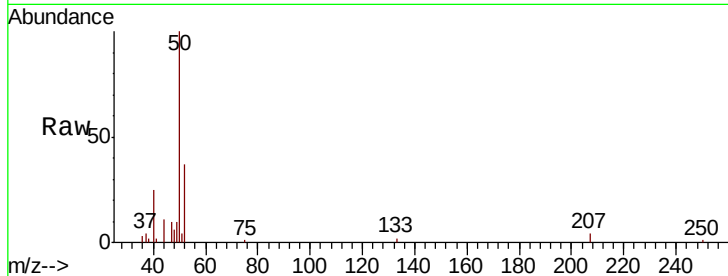
LOQ-SOIL-02-QT3-2020

Tot Ion: 50 Resp: 19166

Ion Ratio Lower Upper

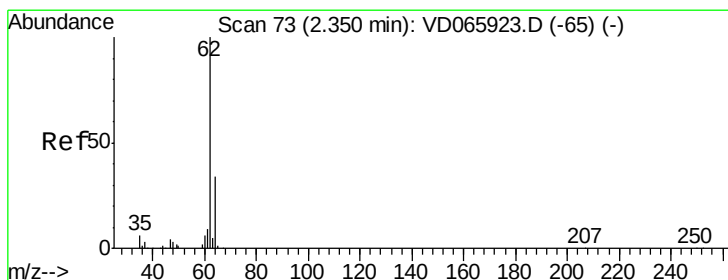
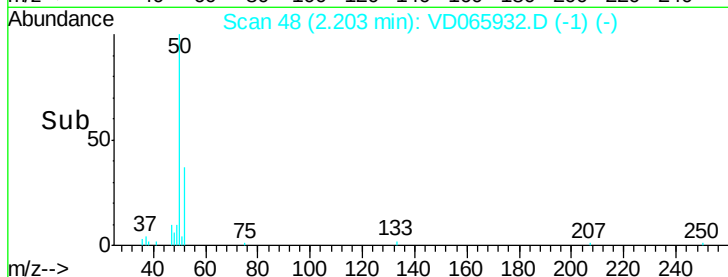
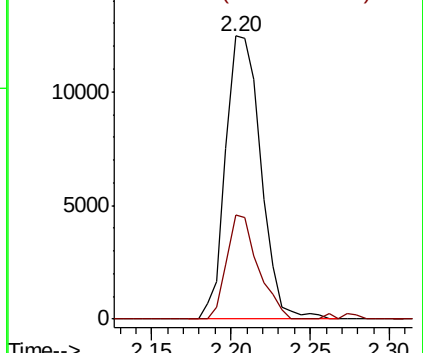
50 100

52 36.7 25.6 38.4



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 5.125 ug/l

RT: 2.35 min Scan# 73

Delta R.T. -0.00 min

Lab File: VD065932.D

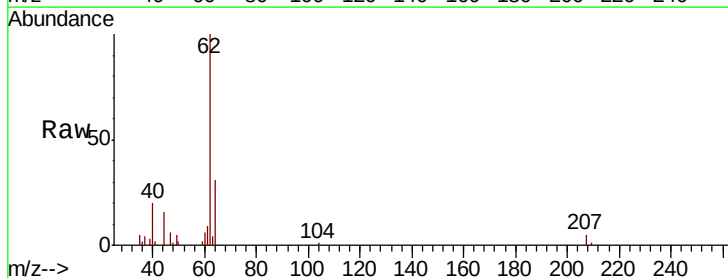
Acq: 07 Jul 2020 20:26

Tgt Ion: 62 Resp: 16316

Ion Ratio Lower Upper

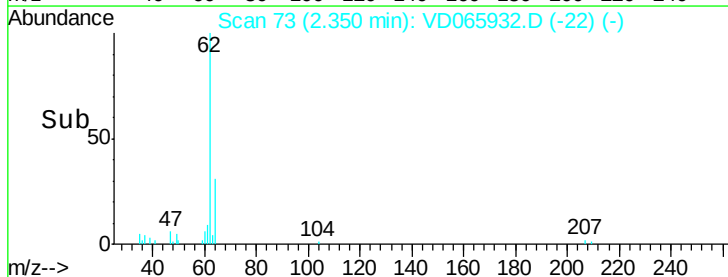
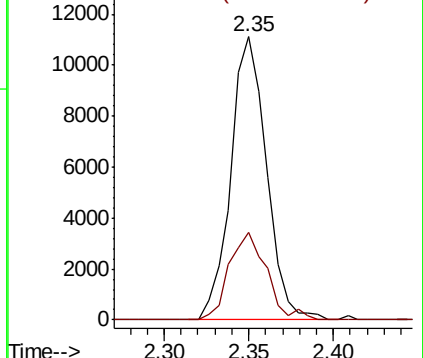
62 100

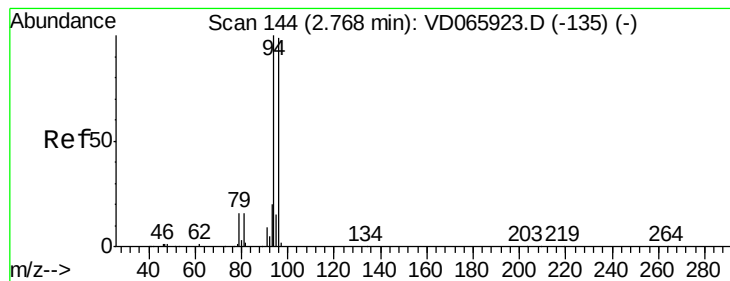
64 30.8 27.2 40.8



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 5.623 ug/l

RT: 2.77 min Scan# 145

Delta R.T. 0.01 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

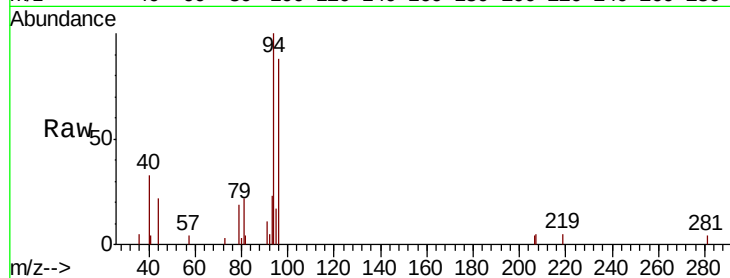
LOQ-SOIL-02-QT3-2020

Tot Ion: 94 Resp: 11341

Ion Ratio Lower Upper

94 100

96 88.0 78.8 118.2



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

6000

5000

4000

3000

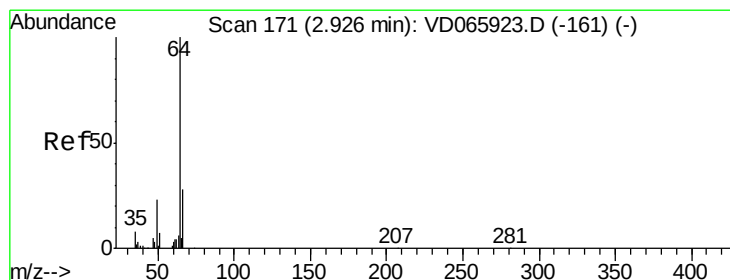
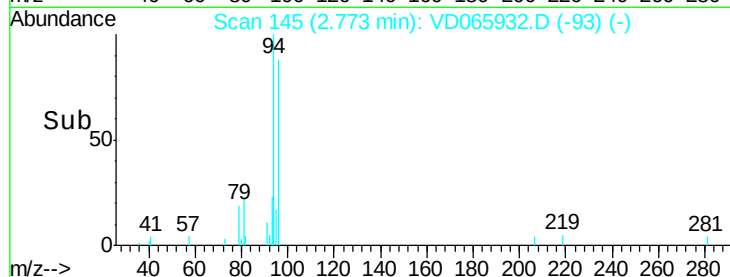
2000

1000

0

2.70 2.75 2.80 2.85

Time-->



#6

Chloroethane

Concen: 5.064 ug/l

RT: 2.92 min Scan# 170

Delta R.T. -0.01 min

Lab File: VD065932.D

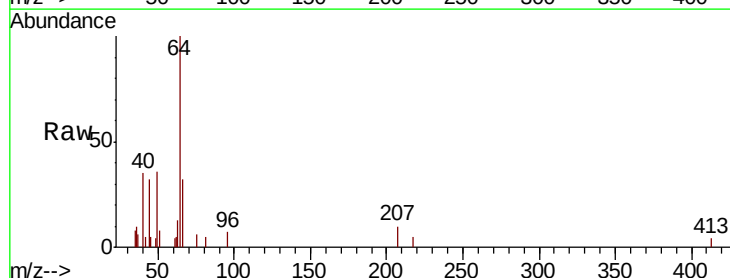
Acq: 07 Jul 2020 20:26

Tgt Ion: 64 Resp: 9638

Ion Ratio Lower Upper

64 100

66 32.3 22.6 33.8



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC

5000

4000

3000

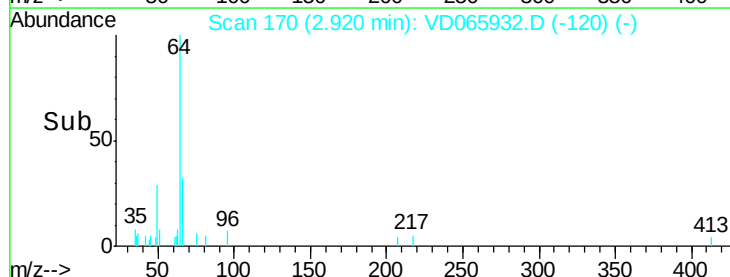
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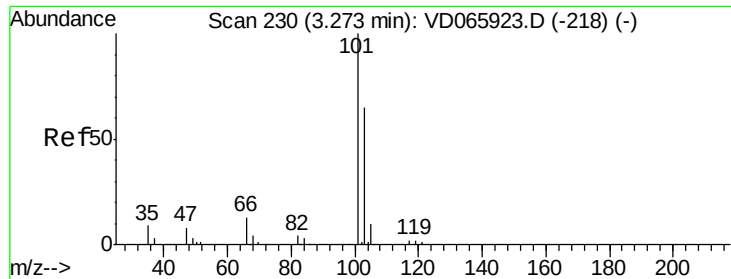
1000

0

2.85 2.90 2.95 3.00

Time-->



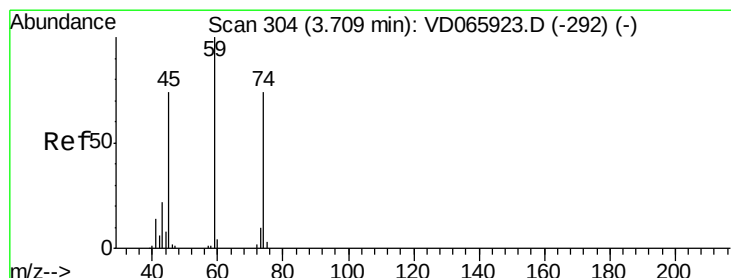
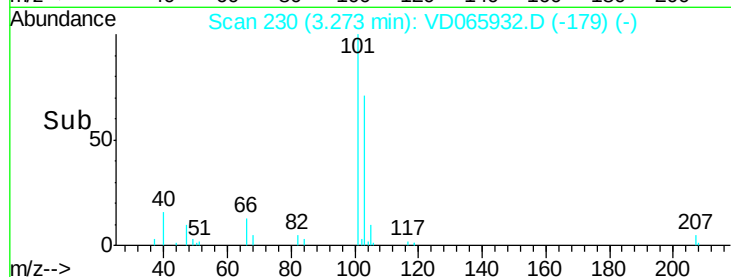
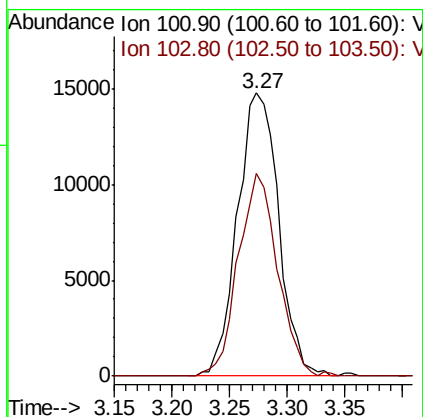
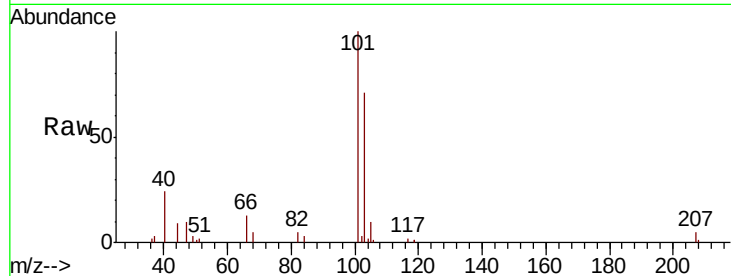


#7

Trichlorofluoromethane
 Concen: 5.373 ug/l
 RT: 3.27 min Scan# 230
 Delta R.T. -0.00 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2020

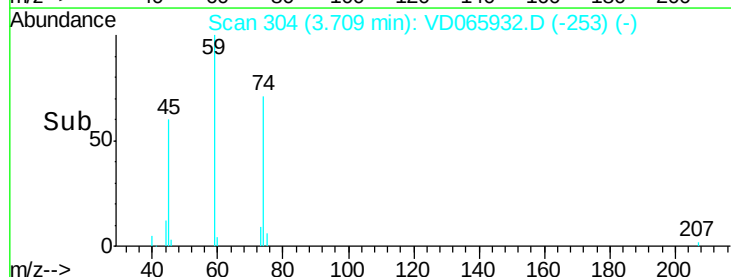
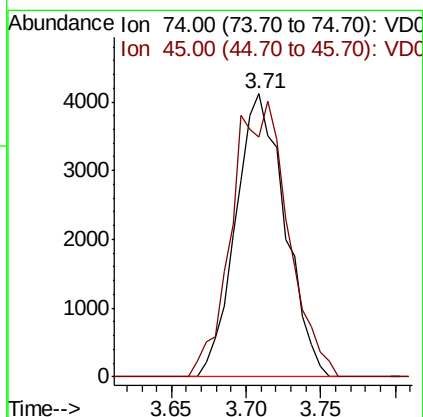
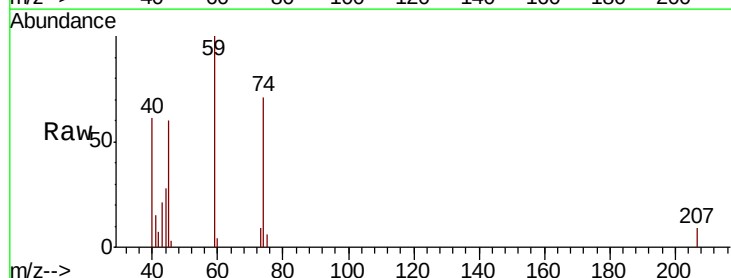
Tot Ion:101 Resp: 36661
 Ion Ratio Lower Upper
 101 100
 103 71.5 51.7 77.5

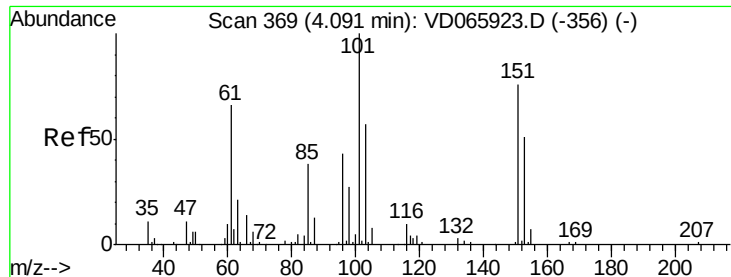


#8

Diethyl Ether
 Concen: 5.045 ug/l
 RT: 3.71 min Scan# 304
 Delta R.T. -0.00 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

Tgt Ion: 74 Resp: 9444
 Ion Ratio Lower Upper
 74 100
 45 110.8 51.1 153.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.292 ug/l

RT: 4.10 min Scan# 370

Delta R.T. 0.01 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

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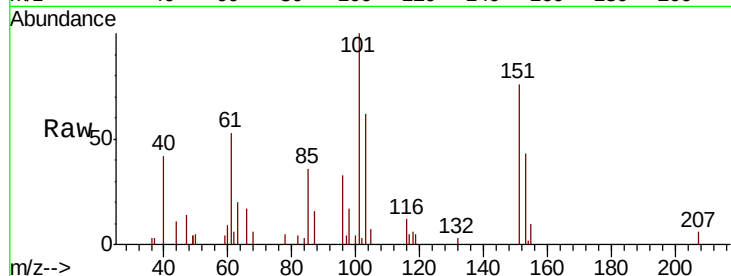
Tot Ion:101 Resp: 21599

Ion Ratio Lower Upper

101 100

85 42.9 33.8 50.8

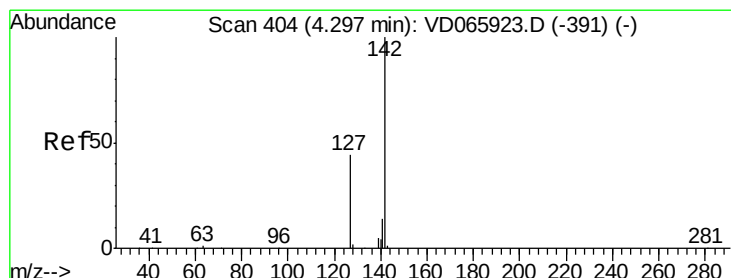
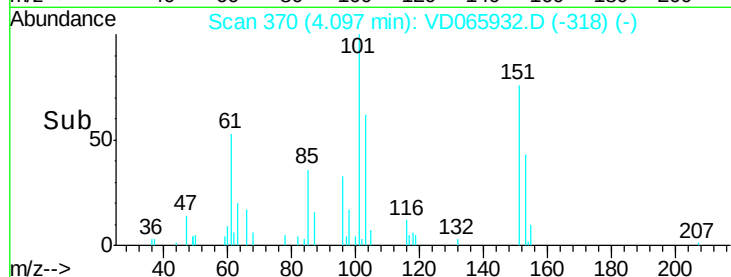
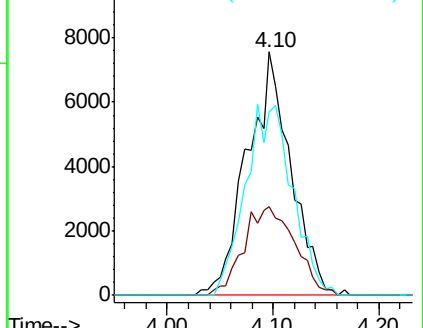
151 85.0 64.1 96.1



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 4.665 ug/l

RT: 4.30 min Scan# 405

Delta R.T. 0.01 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

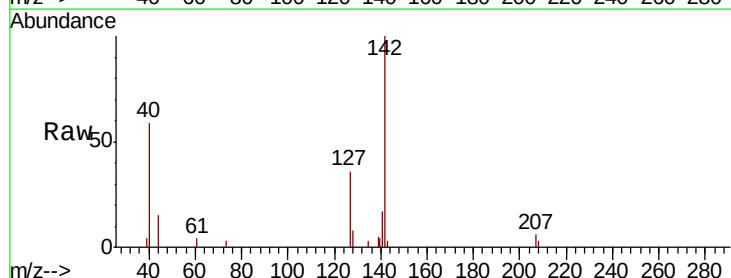
Tgt Ion:142 Resp: 18085

Ion Ratio Lower Upper

142 100

127 45.2 34.6 51.8

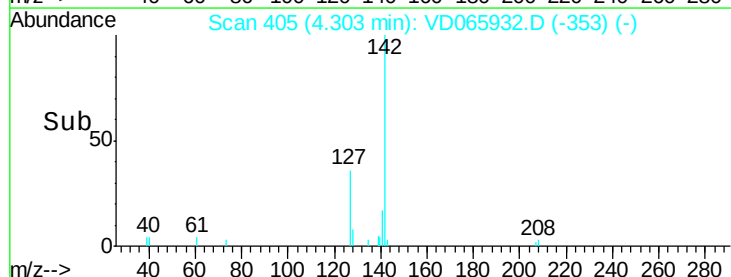
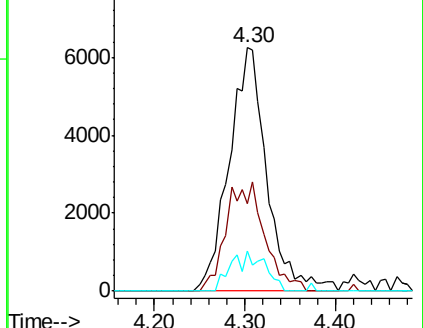
141 5.9 11.6 17.4#

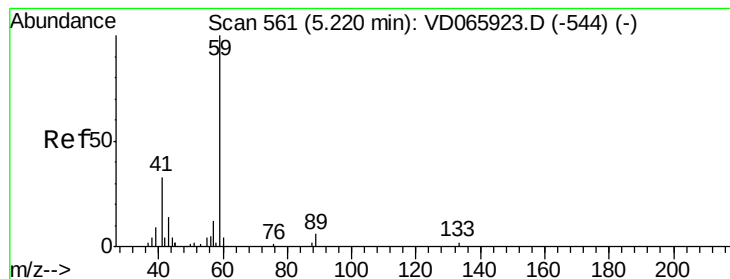


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 43.270 ug/l

RT: 5.21 min Scan# 559

Delta R.T. -0.01 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

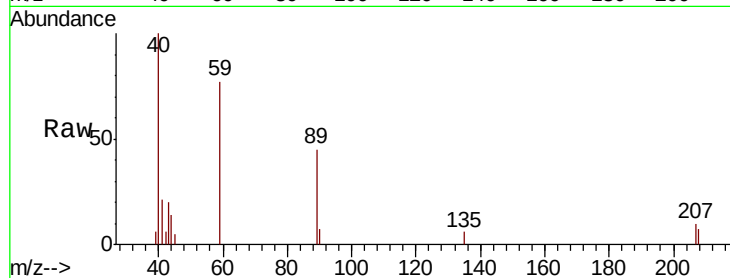
LOQ-SOIL-02-QT3-2020

Tot Ion: 59 Resp: 10820

Ion Ratio Lower Upper

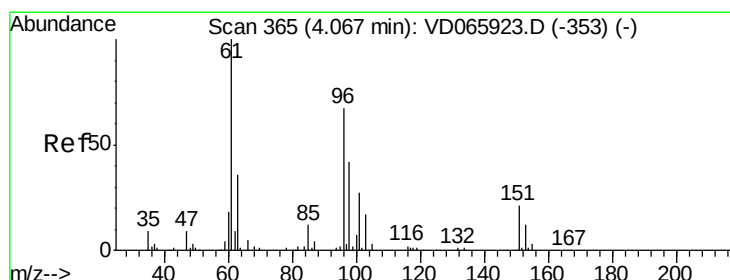
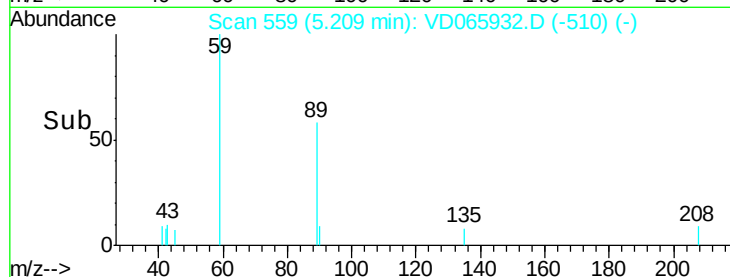
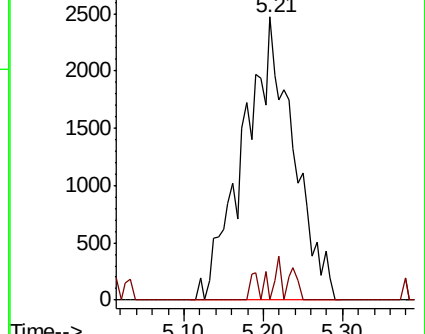
59 100

57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC



#12

1,1-Dichloroethene

Concen: 5.358 ug/l

RT: 4.07 min Scan# 365

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

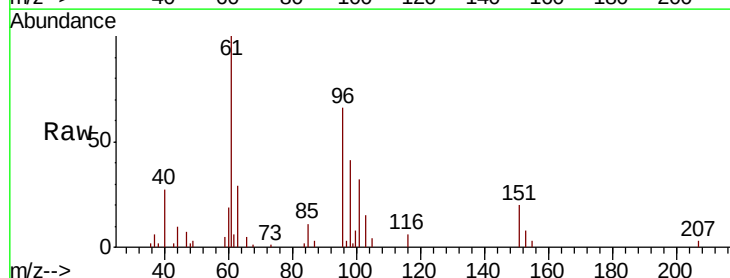
Tgt Ion: 96 Resp: 20431

Ion Ratio Lower Upper

96 100

61 152.5 120.2 180.2

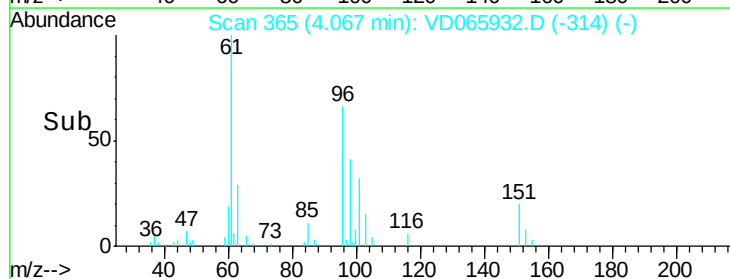
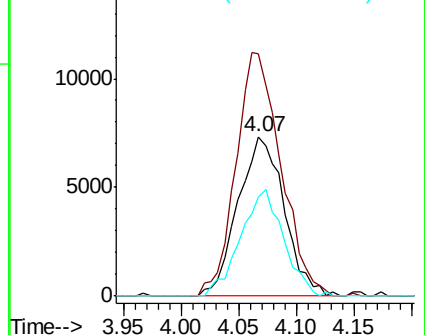
98 62.4 50.6 76.0

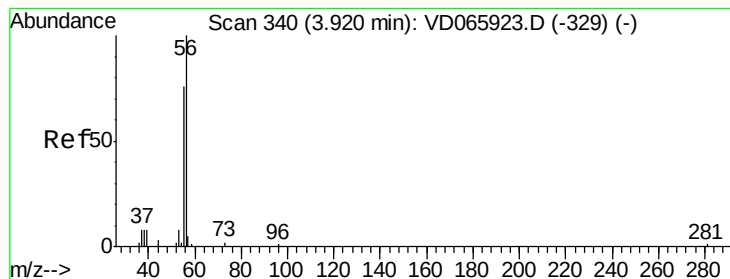


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC





#13

Acrolein

Concen: 22.394 ug/l

RT: 3.93 min Scan# 341

Delta R.T. 0.01 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

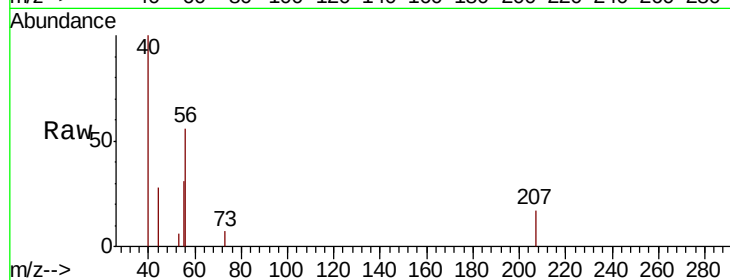
LOQ-SOIL-02-QT3-2020

Tot Ion: 56 Resp: 4607

Ion Ratio Lower Upper

56 100

55 79.8 55.0 82.6



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.93

2000

1500

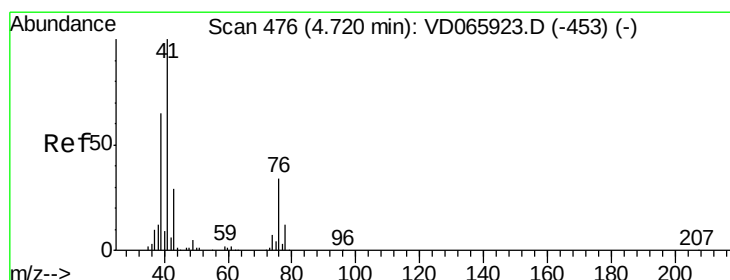
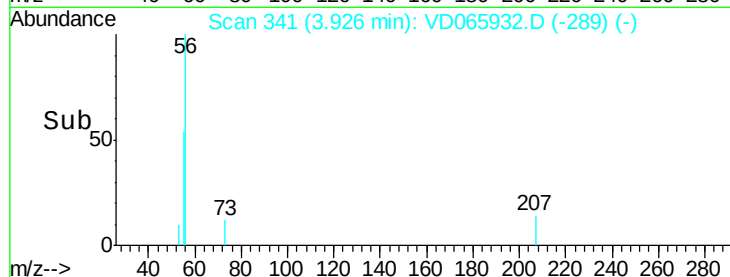
1000

500

0

3.85 3.90 3.95 4.00

Time-->



#14

Allyl chloride

Concen: 5.125 ug/l

RT: 4.72 min Scan# 476

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

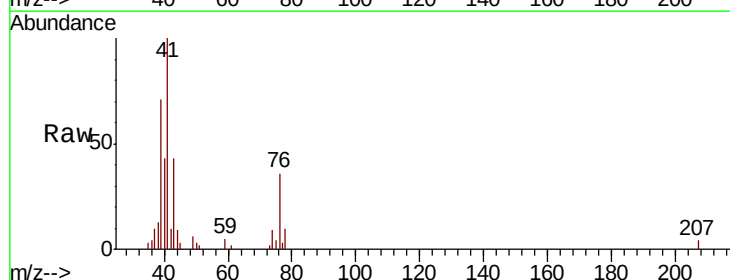
Tgt Ion: 41 Resp: 33117

Ion Ratio Lower Upper

41 100

39 65.5 52.2 78.4

76 34.9 28.1 42.1



Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC

4.72

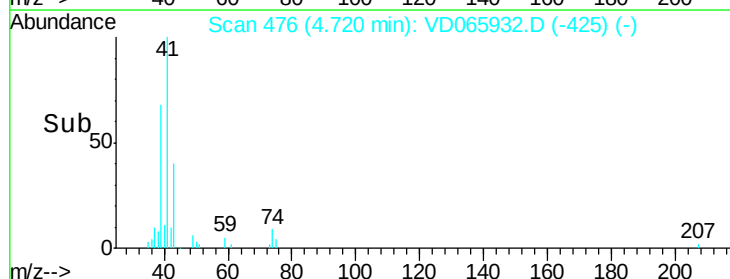
10000

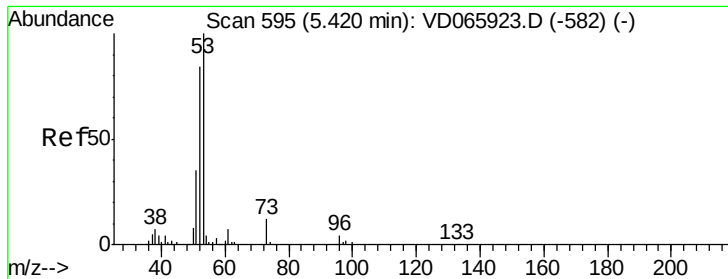
5000

0

4.60 4.70 4.80

Time-->





#15

Acrylonitrile

Concen: 25.983 ug/l

RT: 5.44 min Scan# 598

Delta R.T. 0.02 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2020

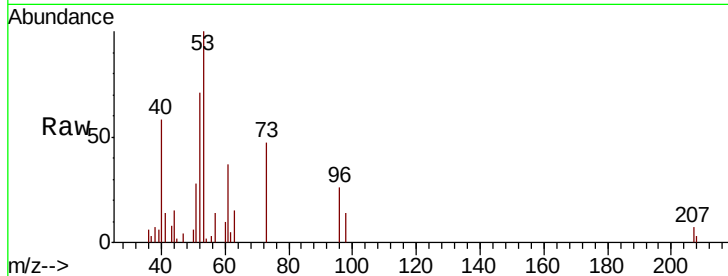
Tot Ion: 53 Resp: 21296

Ion Ratio Lower Upper

53 100

52 81.3 66.3 99.5

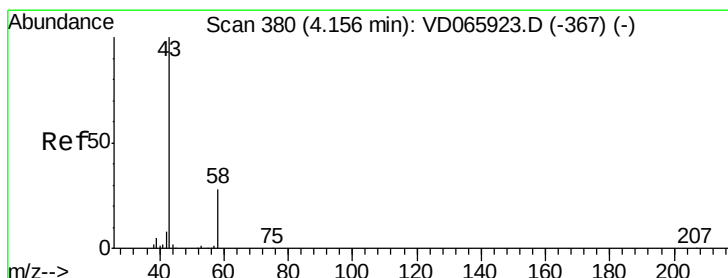
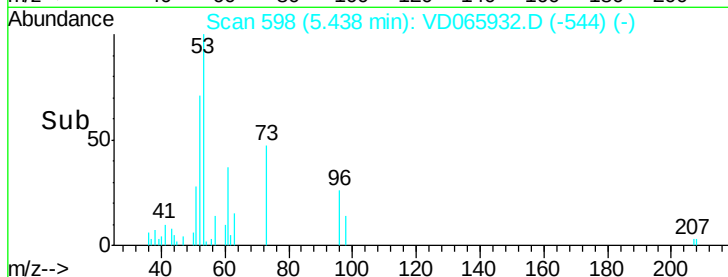
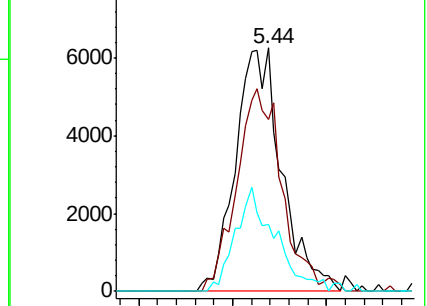
51 36.6 29.8 44.8



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: 23.154 ug/l

RT: 4.16 min Scan# 380

Delta R.T. -0.00 min

Lab File: VD065932.D

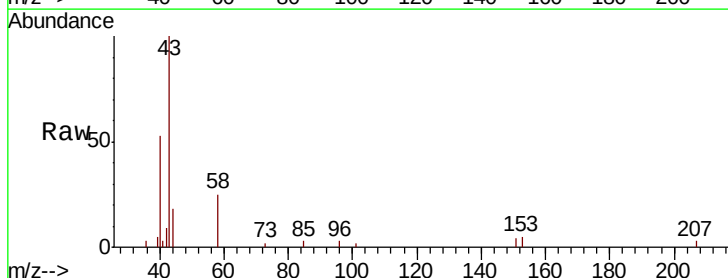
Acq: 07 Jul 2020 20:26

Tgt Ion: 43 Resp: 18921

Ion Ratio Lower Upper

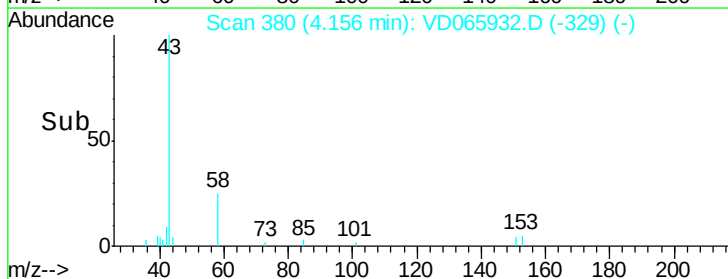
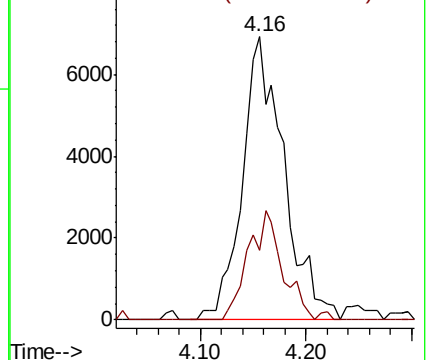
43 100

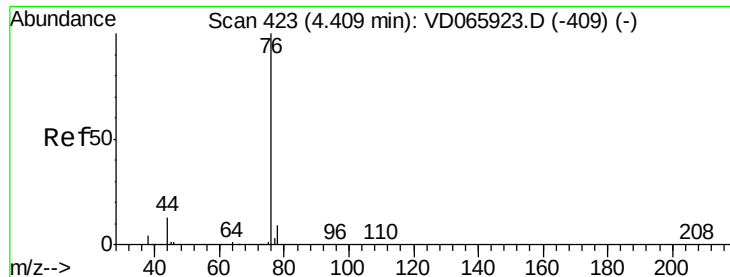
58 24.5 22.7 34.1



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

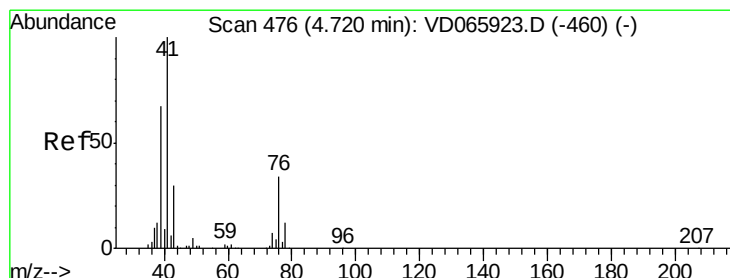
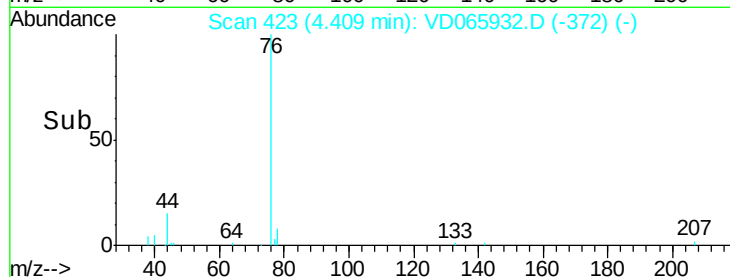
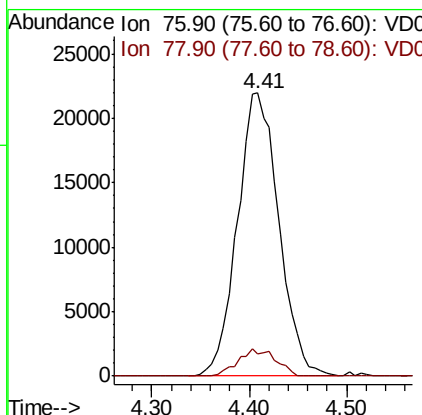
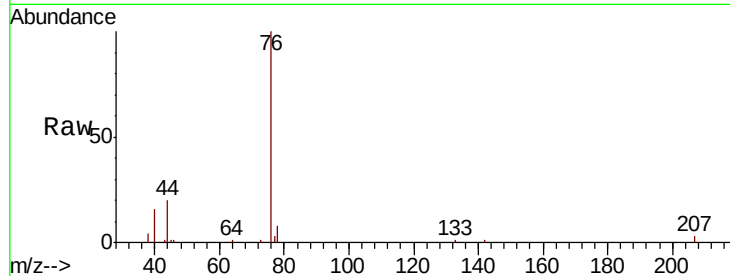




#17
Carbon Disulfide
Concen: 5.363 ug/l
RT: 4.41 min Scan# 423
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

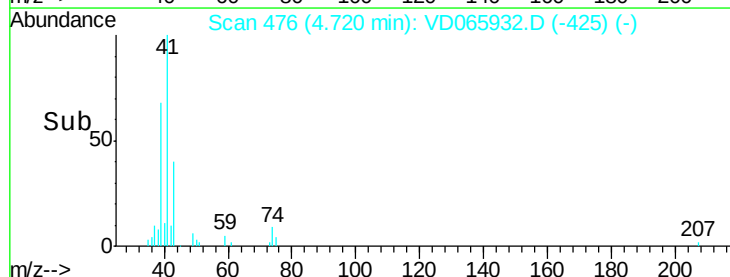
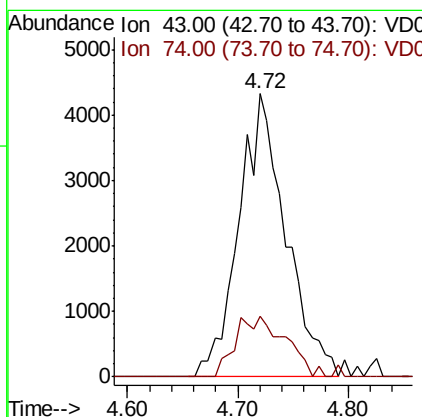
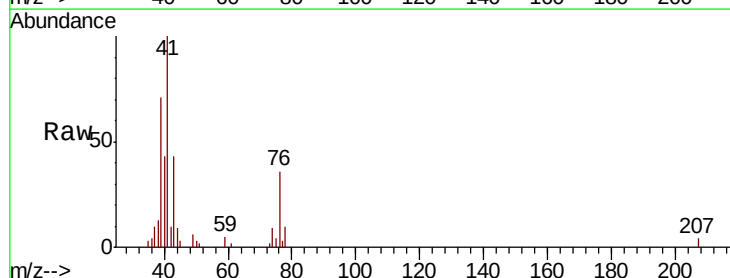
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2020

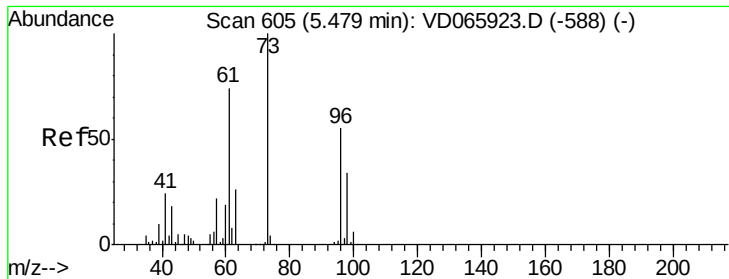
Tot Ion: 76 Resp: 65164
Ion Ratio Lower Upper
76 100
78 8.0 7.5 11.3



#18
Methyl Acetate
Concen: 6.710 ug/l
RT: 4.72 min Scan# 476
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Tgt Ion: 43 Resp: 12853
Ion Ratio Lower Upper
43 100
74 9.6 17.8 26.8#

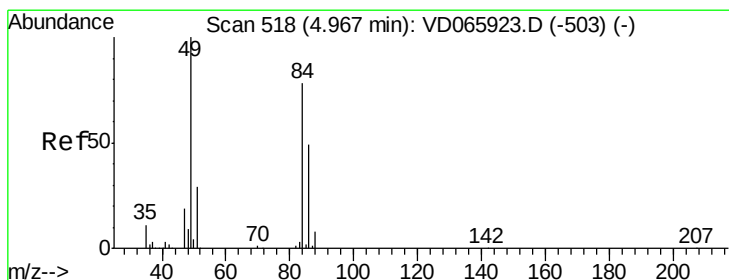
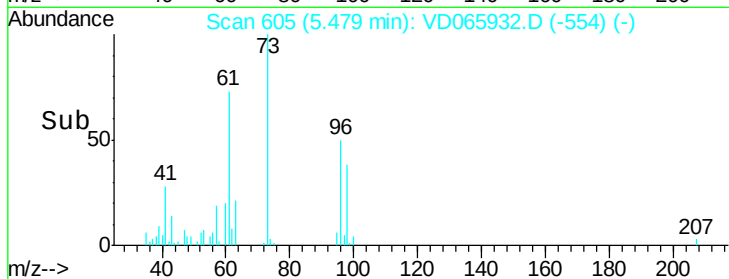
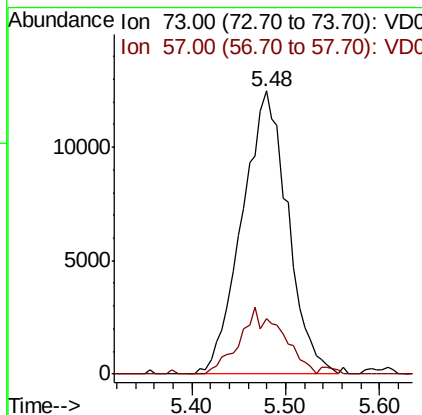
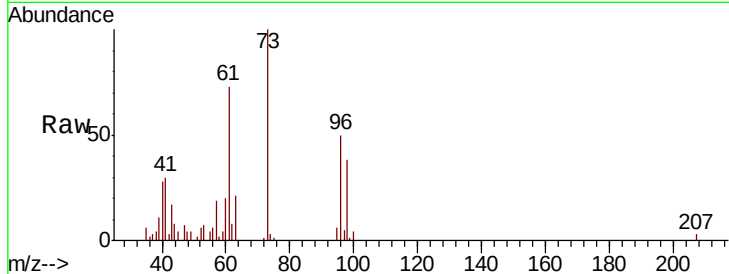




#19
Methyl tert-butyl Ether
Concen: 5.216 ug/l
RT: 5.48 min Scan# 605
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

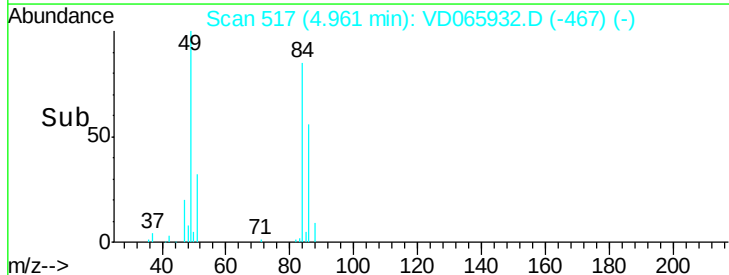
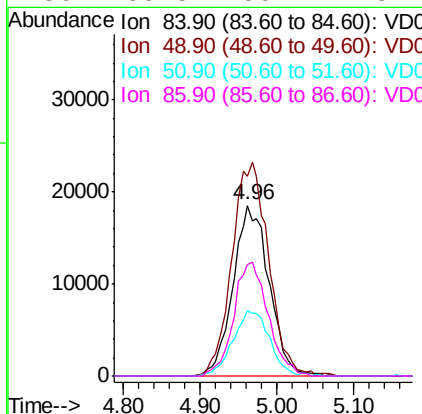
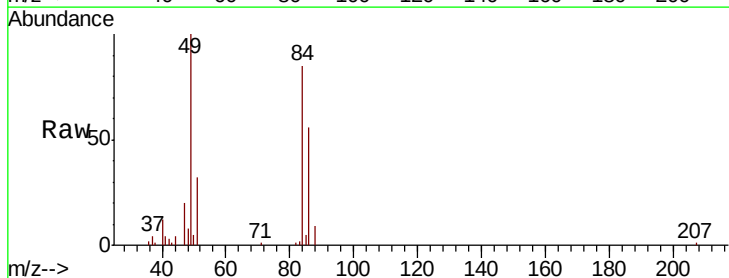
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2020

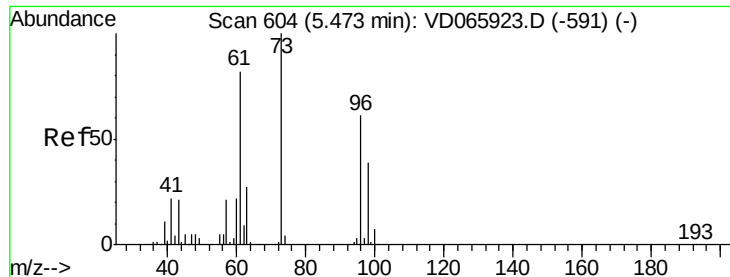
Tot Ion: 73 Resp: 42109
Ion Ratio Lower Upper
73 100
57 19.4 17.7 26.5



#20
Methylene Chloride
Concen: 10.425 ug/l
RT: 4.96 min Scan# 517
Delta R.T. -0.01 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Tgt Ion: 84 Resp: 60520
Ion Ratio Lower Upper
84 100
49 117.4 102.2 153.2
51 38.1 29.8 44.6
86 65.5 50.2 75.2





#21

trans-1,2-Dichloroethene

Concen: 5.241 ug/l

RT: 5.47 min Scan# 603

Delta R.T. -0.01 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2020

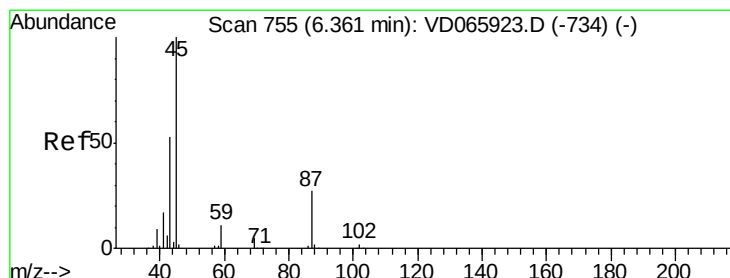
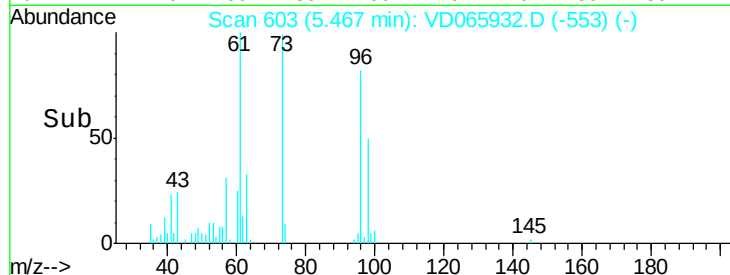
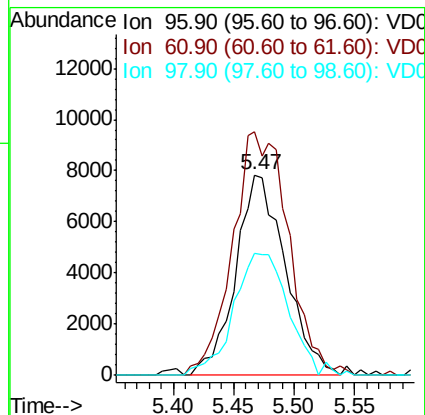
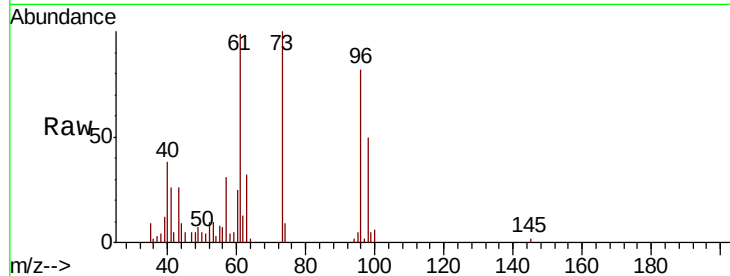
Tot Ion: 96 Resp: 22483

Ion Ratio Lower Upper

96 100

61 116.9 106.6 160.0

98 61.0 51.0 76.6



#22

Diisopropyl ether

Concen: 5.269 ug/l

RT: 6.36 min Scan# 755

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Tgt Ion: 45 Resp: 63986

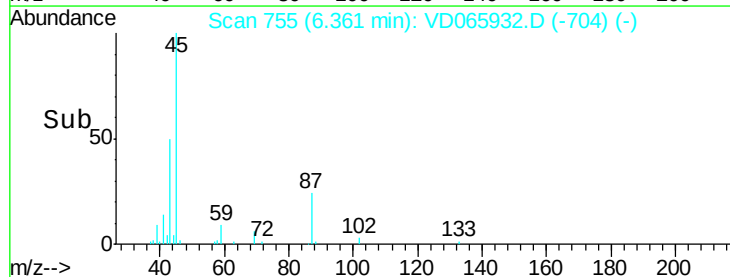
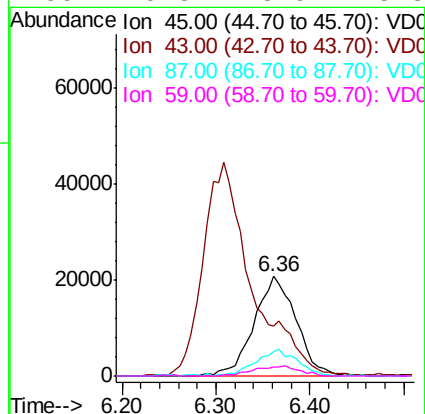
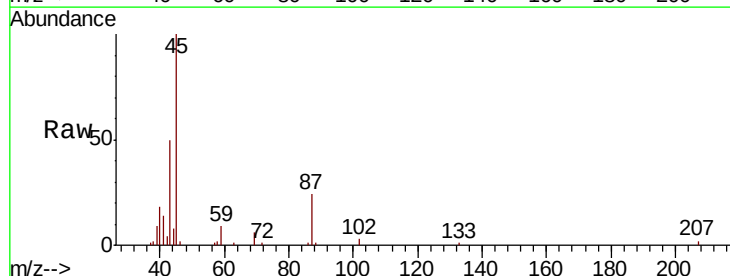
Ion Ratio Lower Upper

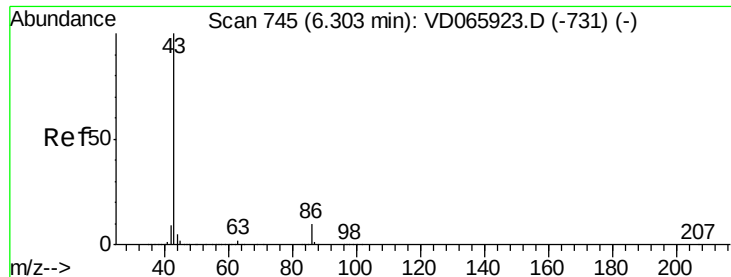
45 100

43 47.0 42.5 63.7

87 24.5 22.2 33.2

59 9.3 8.9 13.3





#23

Vinyl Acetate

Concen: 23.173 ug/l

RT: 6.31 min Scan# 746

Delta R.T. 0.01 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

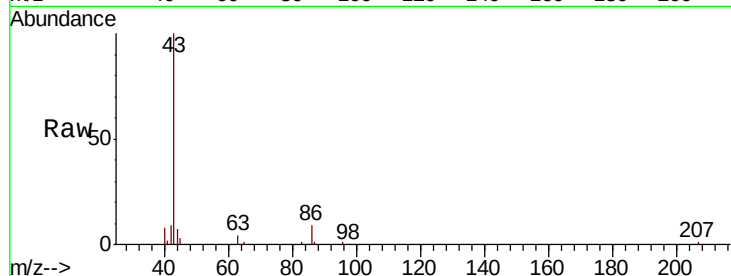
LOQ-SOIL-02-QT3-2020

Tot Ion: 43 Resp: 160627

Ion Ratio Lower Upper

43 100

86 9.0 8.1 12.1



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC

6.31

50000

40000

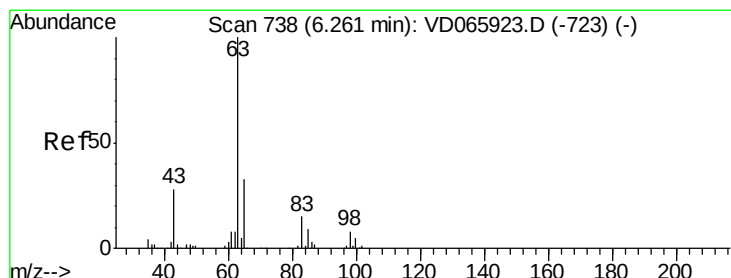
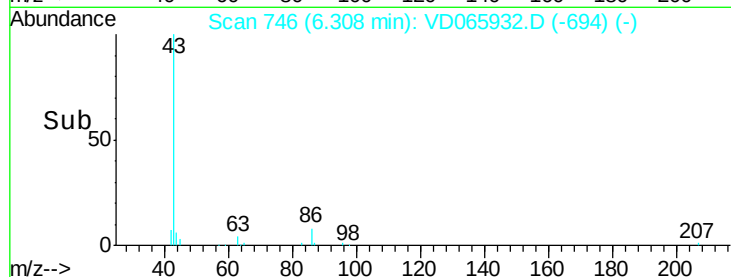
30000

20000

10000

0

Time--> 6.10 6.20 6.30 6.40 6.50



#24

1,1-Dichloroethane

Concen: 5.300 ug/l

RT: 6.27 min Scan# 740

Delta R.T. 0.01 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

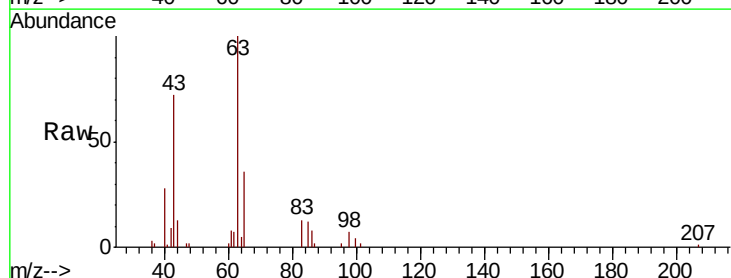
Tgt Ion: 63 Resp: 38379

Ion Ratio Lower Upper

63 100

98 6.5 3.8 11.4

100 4.0 2.5 7.5



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC

6.27

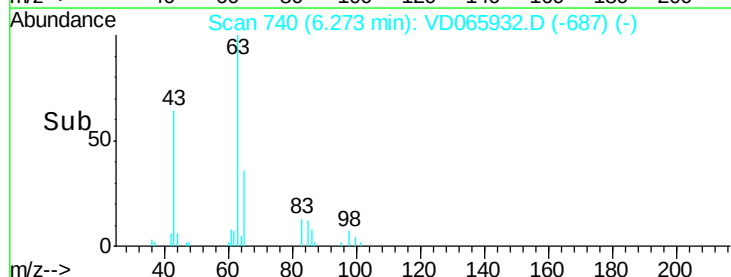
15000

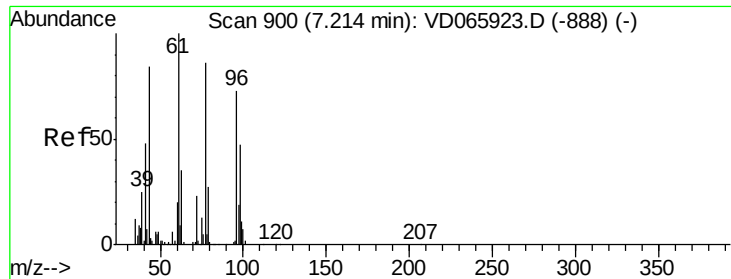
10000

5000

0

Time--> 6.20 6.30 6.40





#25

2-Butanone

Concen: 27.170 ug/l

RT: 7.21 min Scan# 900

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

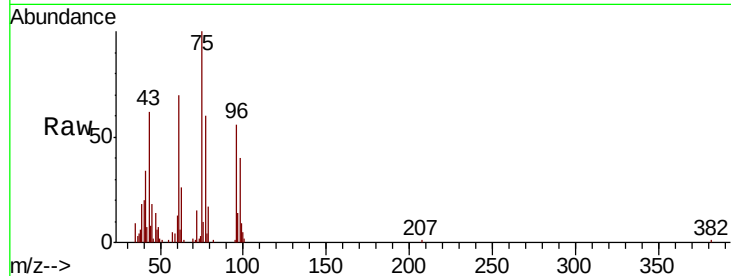
LOQ-SOIL-02-QT3-2020

Tot Ion: 43 Resp: 29339

Ion Ratio Lower Upper

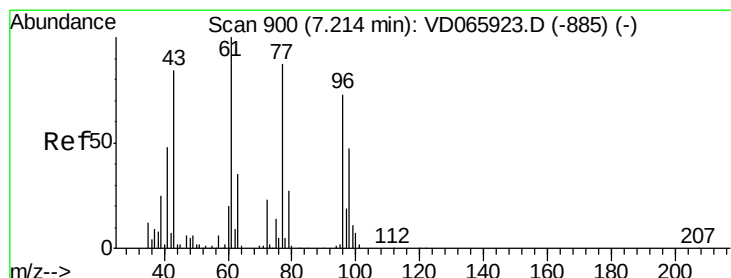
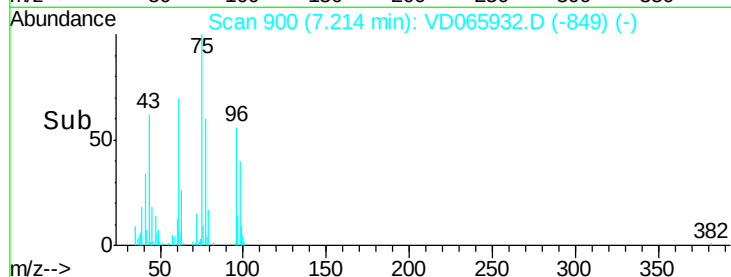
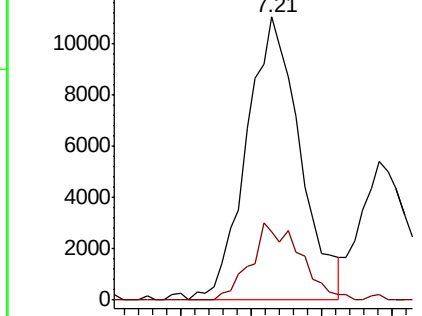
43 100

72 24.1 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 5.200 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.01 min

Lab File: VD065932.D

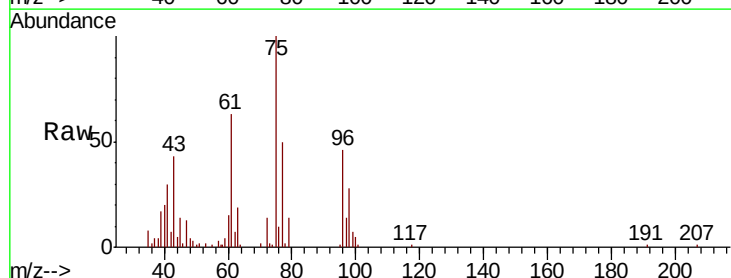
Acq: 07 Jul 2020 20:26

Tgt Ion: 77 Resp: 32939

Ion Ratio Lower Upper

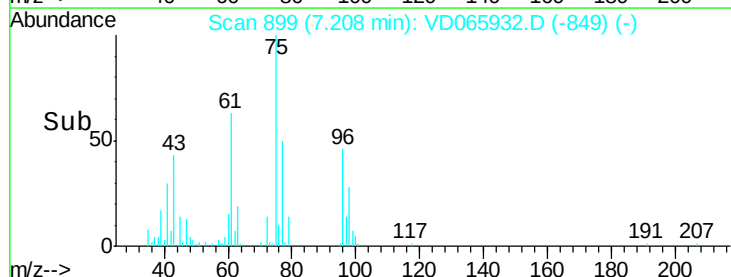
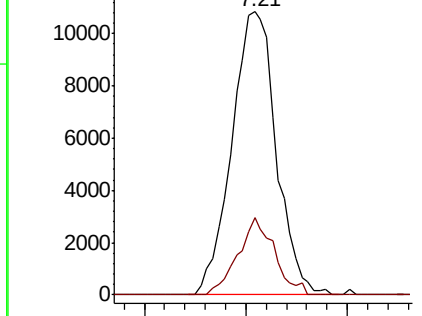
77 100

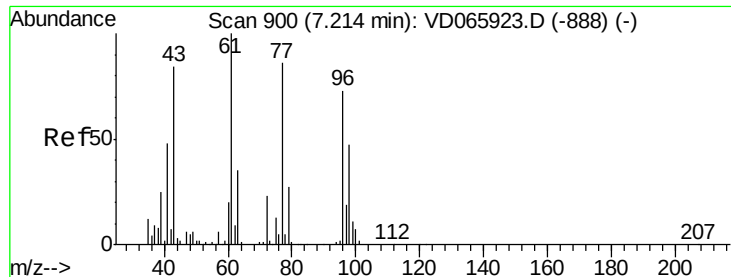
97 22.5 11.6 34.8



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC





#27

cis-1,2-Dichloroethene

Concen: 5.427 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.01 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2020

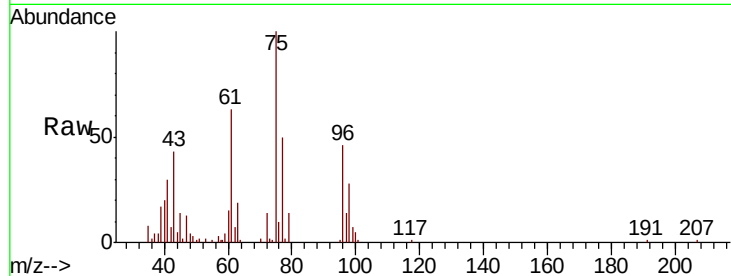
Tot Ion: 96 Resp: 25018

Ion Ratio Lower Upper

96 100

61 148.1 0.0 286.6

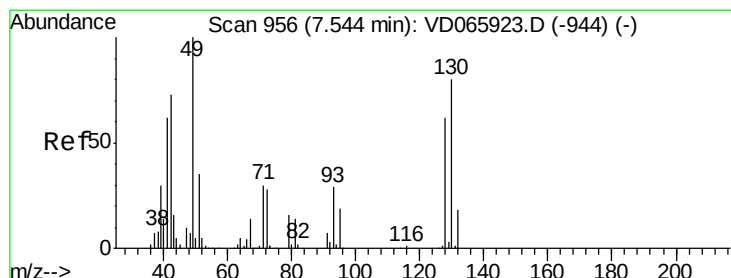
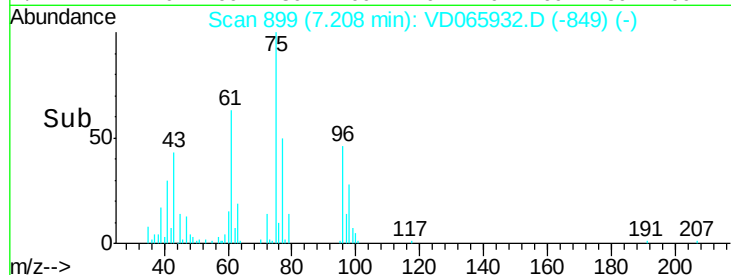
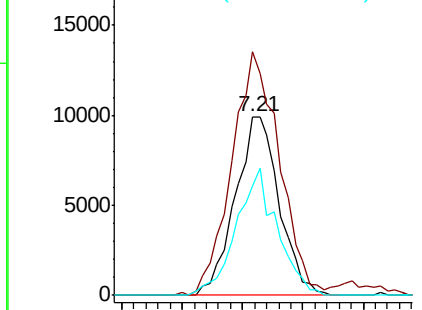
98 66.6 0.0 128.2



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC



#28

Bromochloromethane

Concen: 5.049 ug/l

RT: 7.55 min Scan# 957

Delta R.T. 0.01 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

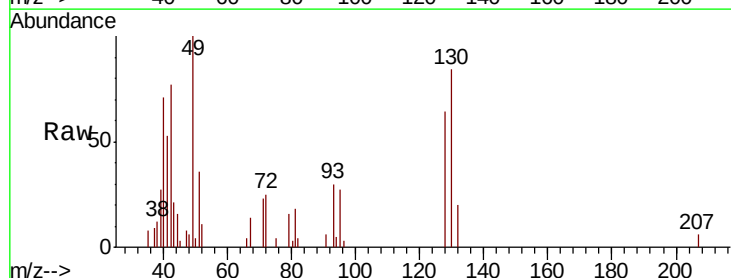
Tgt Ion: 49 Resp: 13810

Ion Ratio Lower Upper

49 100

129 2.4 0.0 4.8

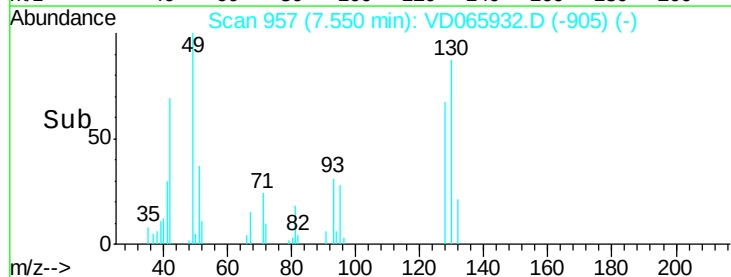
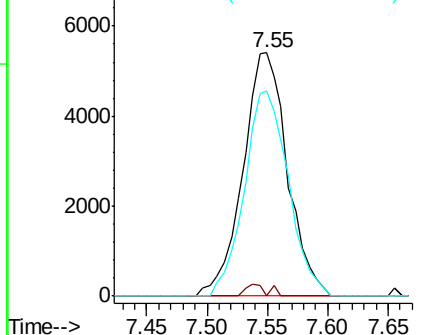
130 83.4 65.8 98.8

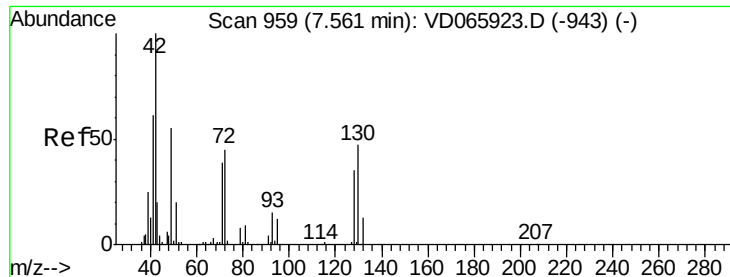


Abundance Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 25.735 ug/l

RT: 7.57 min Scan# 960

Delta R.T. 0.01 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2020

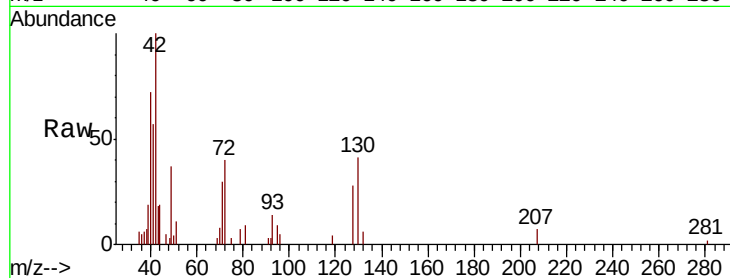
Tot Ion: 42 Resp: 17671

Ion Ratio Lower Upper

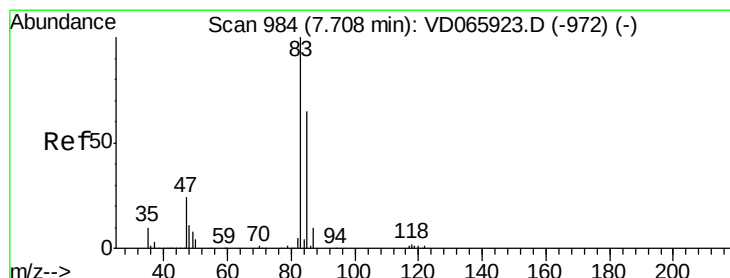
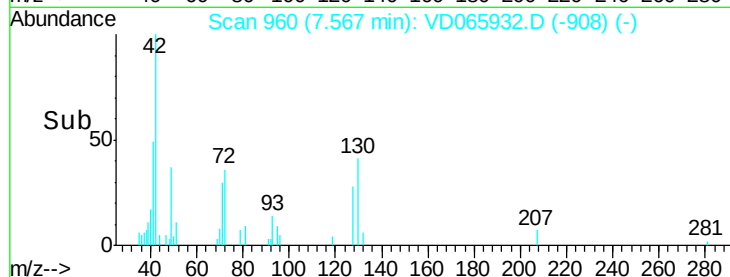
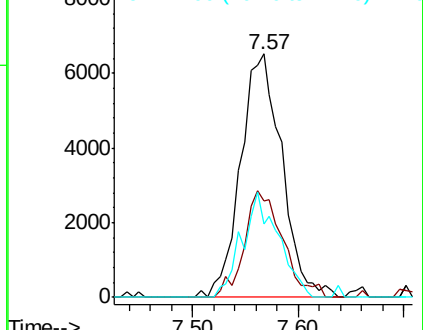
42 100

72 40.7 32.8 49.2

71 37.9 31.0 46.4



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: 5.365 ug/l

RT: 7.71 min Scan# 984

Delta R.T. -0.00 min

Lab File: VD065932.D

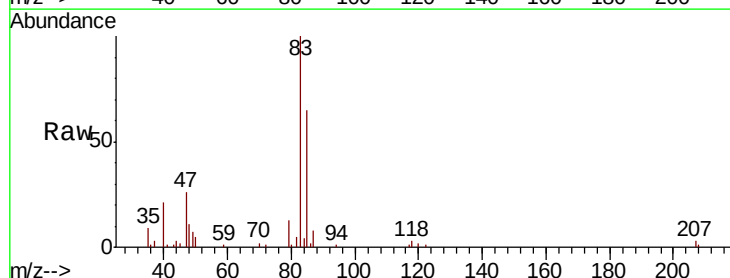
Acq: 07 Jul 2020 20:26

Tgt Ion: 83 Resp: 39386

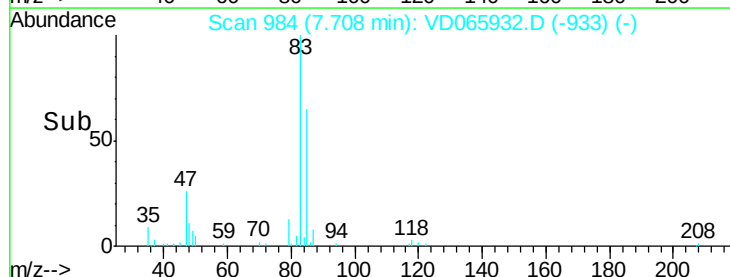
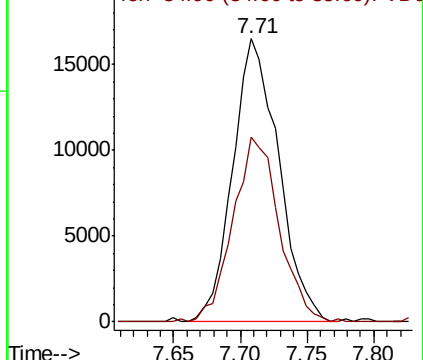
Ion Ratio Lower Upper

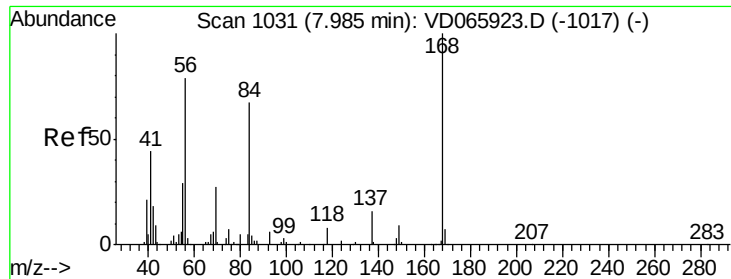
83 100

85 65.2 51.6 77.4



Abundance Ion 82.90 (82.60 to 83.60): VDC
Ion 84.90 (84.60 to 85.60): VDC

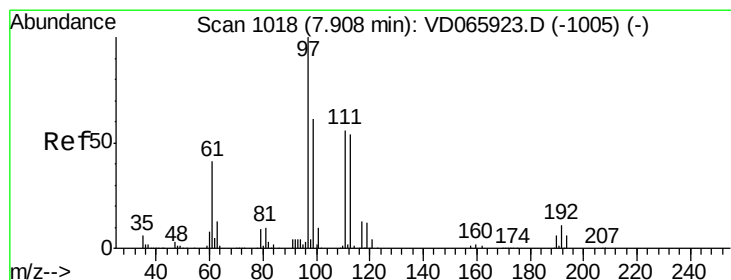
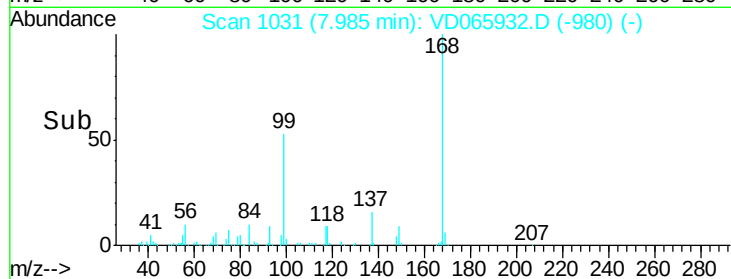
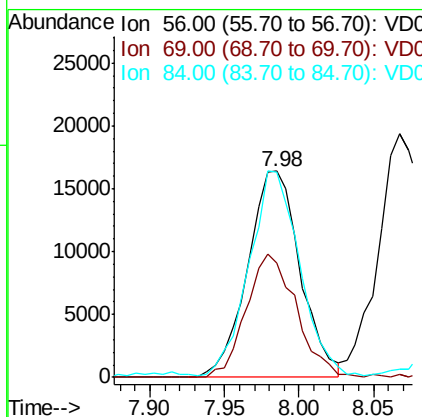
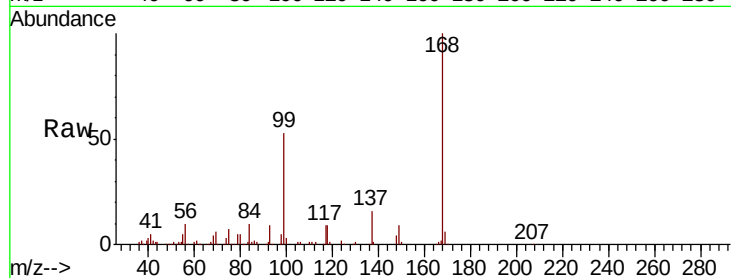




#31
Cyclohexane
Concen: 5.617 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

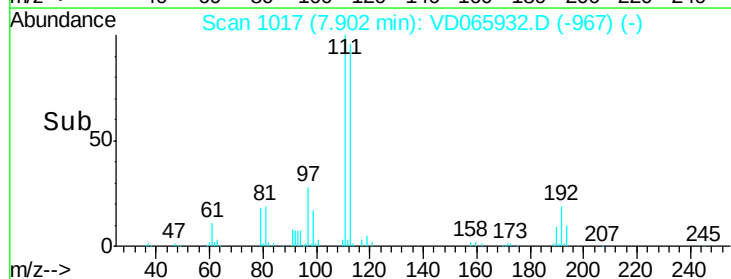
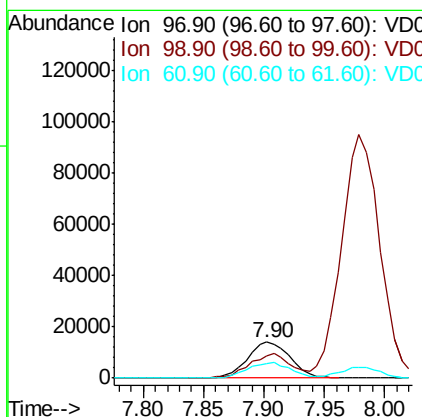
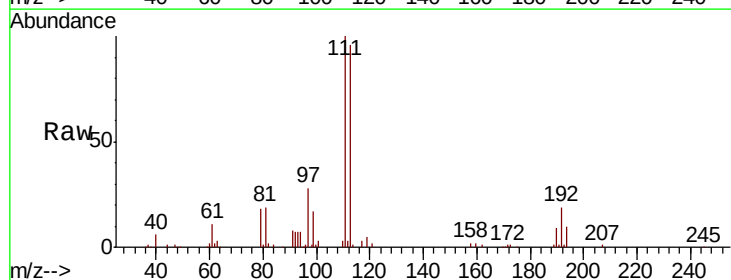
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2020

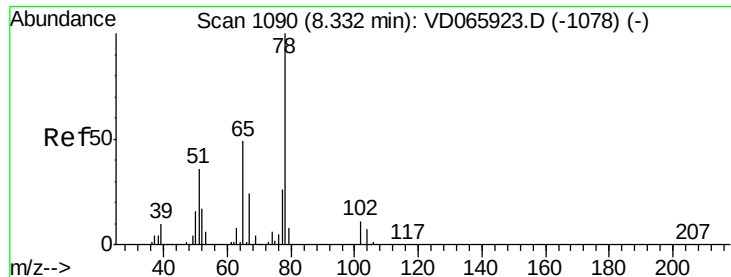
Tot Ion: 56 Resp: 40022
Ion Ratio Lower Upper
56 100
69 55.8 27.4 41.0#
84 98.1 68.6 102.8



#32
1,1,1-Trichloroethane
Concen: 5.254 ug/l
RT: 7.90 min Scan# 1017
Delta R.T. -0.01 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Tgt Ion: 97 Resp: 35196
Ion Ratio Lower Upper
97 100
99 66.3 51.6 77.4
61 44.1 33.6 50.4

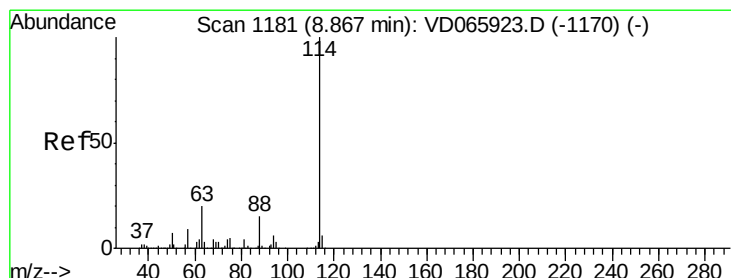
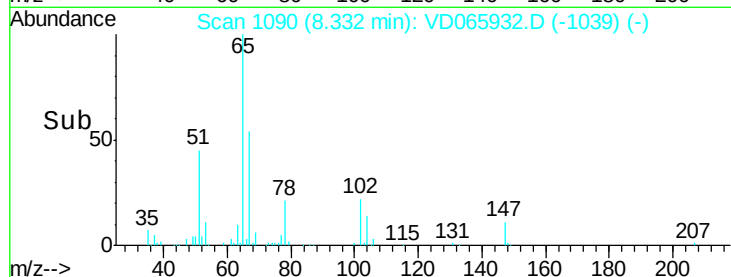
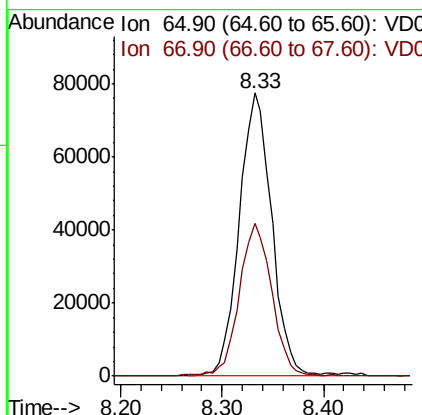
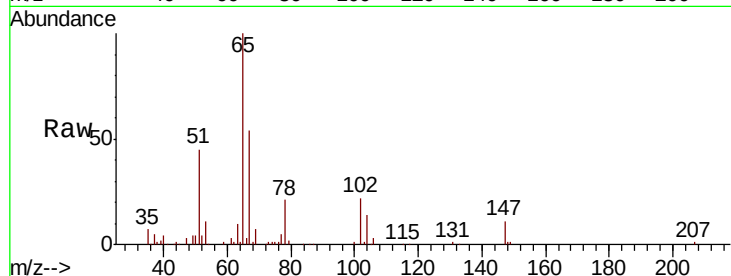




#33
 1,2-Dichloroethane-d4
 Concen: 49.530 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. -0.00 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

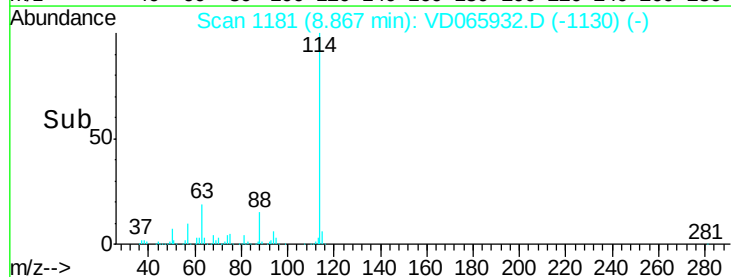
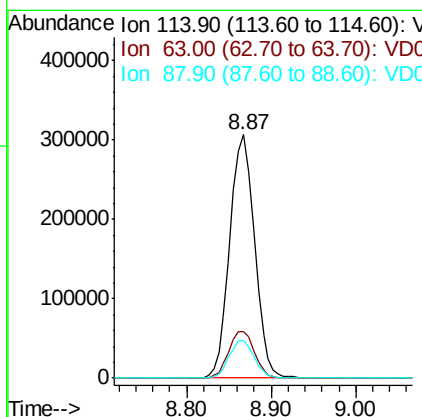
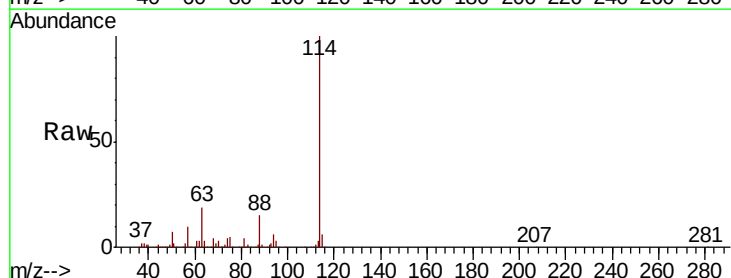
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2020

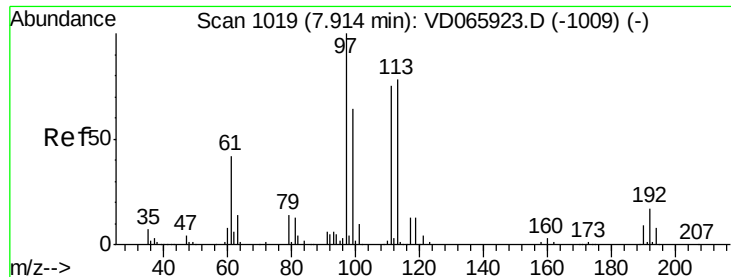
Tot Ion: 65 Resp: 172706
 Ion Ratio Lower Upper
 65 100
 67 54.1 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

Tgt Ion: 114 Resp: 623677
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 39.2
 88 15.4 0.0 30.0

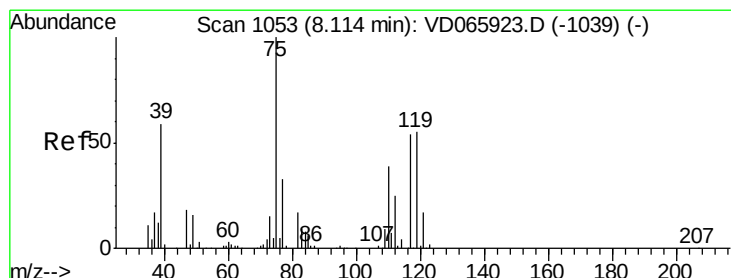
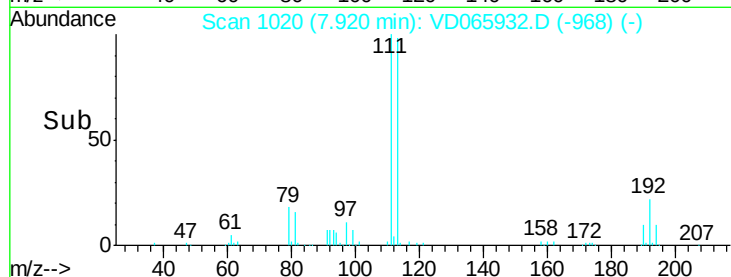
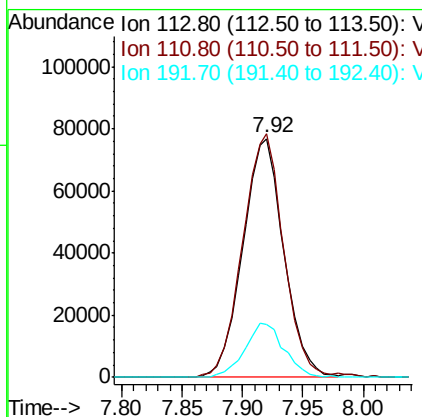
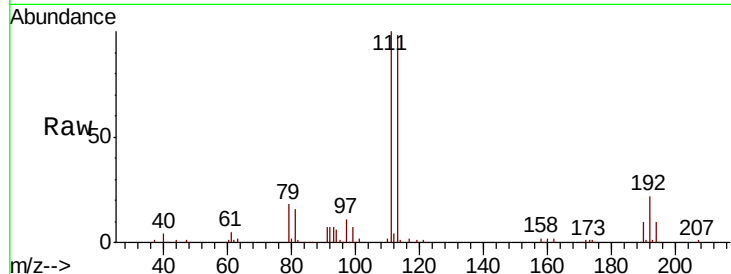




#35
 Dibromofluoromethane
 Concen: 47.197 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.01 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

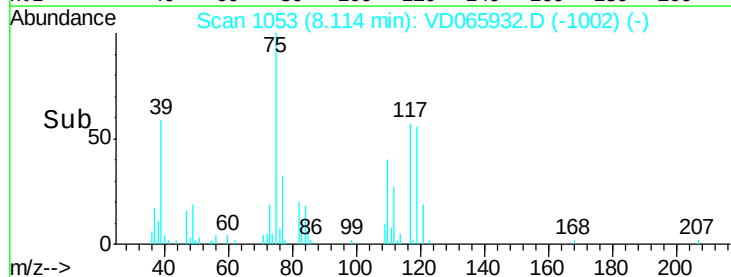
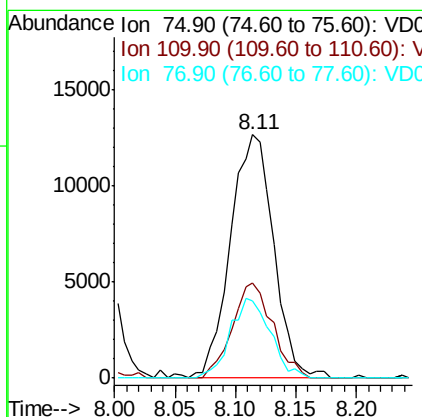
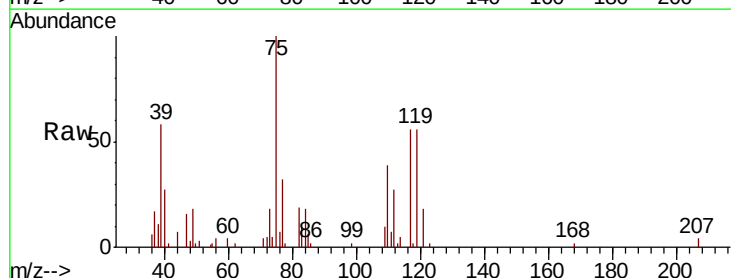
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2020

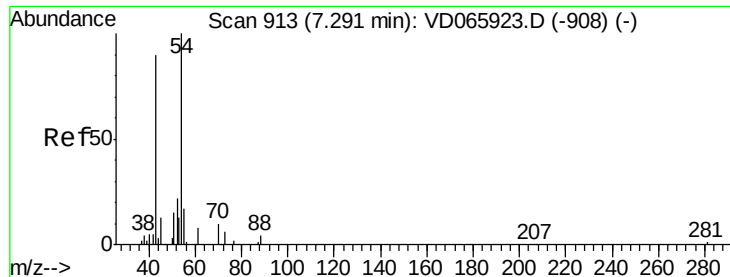
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.6	80.9	121.3
192	21.8	17.1	25.7



#36
 1,1-Dichloropropene
 Concen: 5.125 ug/l
 RT: 8.11 min Scan# 1053
 Delta R.T. -0.00 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

Tgt Ion	Ratio	Lower	Upper
75	100		
110	36.6	18.5	55.5
77	30.4	25.6	38.4

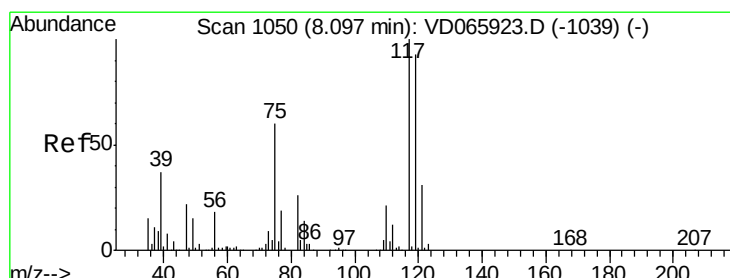
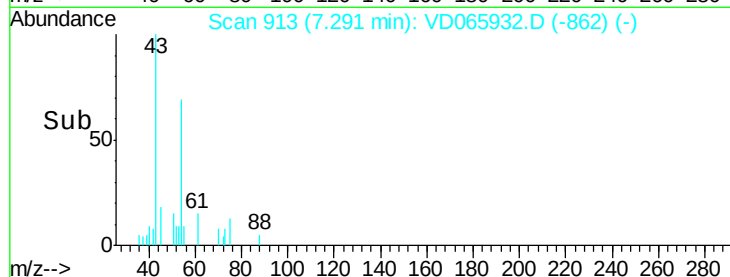
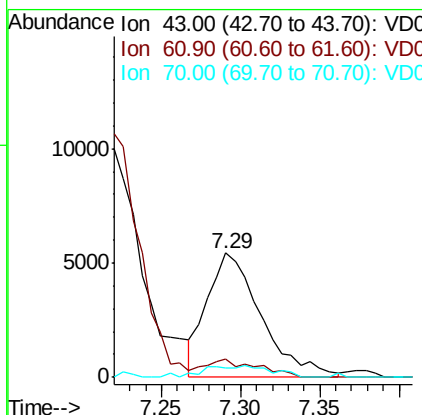
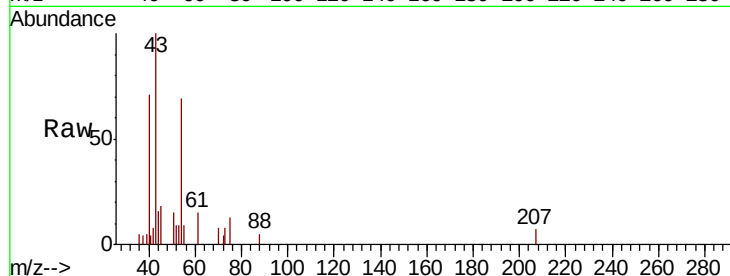




#37
Ethyl Acetate
Concen: 4.990 ug/l
RT: 7.29 min Scan# 913
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

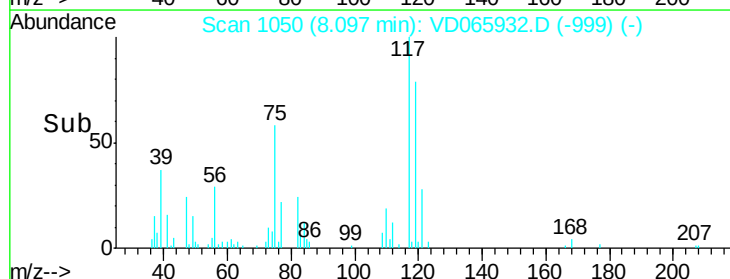
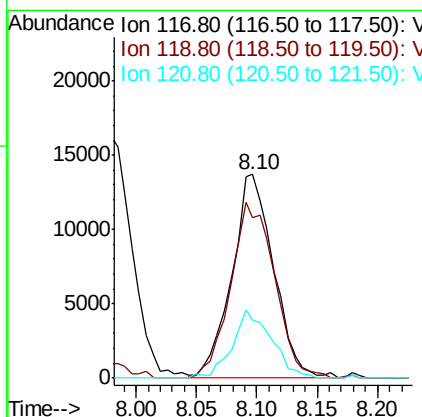
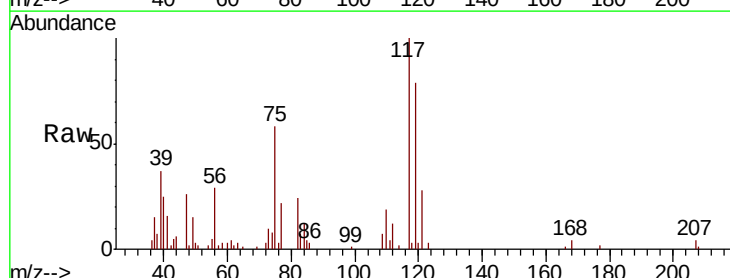
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2020

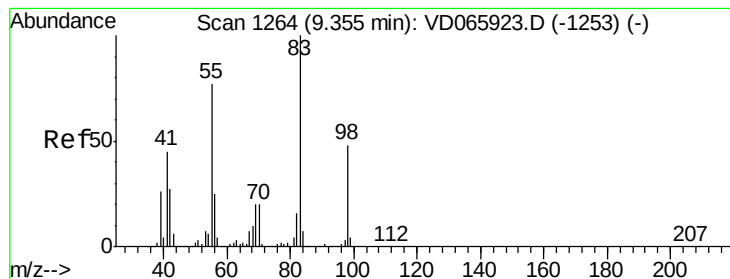
Tot Ion: 43 Resp: 12879
Ion Ratio Lower Upper
43 100
61 14.1 9.4 14.0#
70 6.3 8.3 12.5#



#38
Carbon Tetrachloride
Concen: 5.007 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Tgt Ion: 117 Resp: 33057
Ion Ratio Lower Upper
117 100
119 79.0 74.7 112.1
121 28.3 24.9 37.3





#39

Methylvlcyclohexane

Concen: 4.657 ug/l

RT: 9.36 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2020

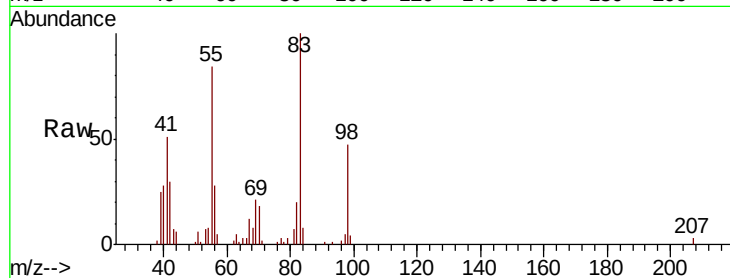
Tot Ion: 83 Resp: 35220

Ion Ratio Lower Upper

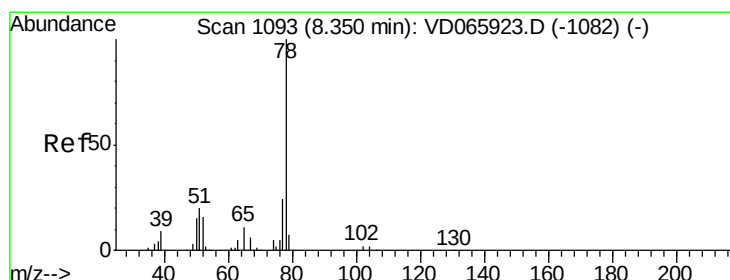
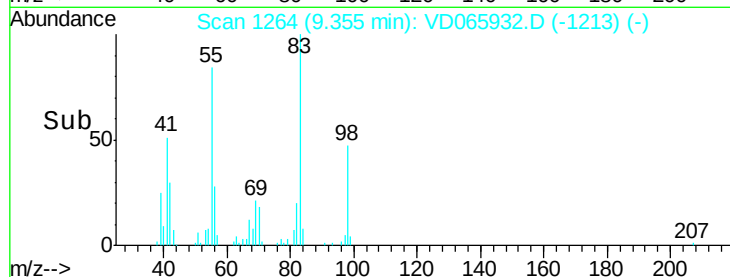
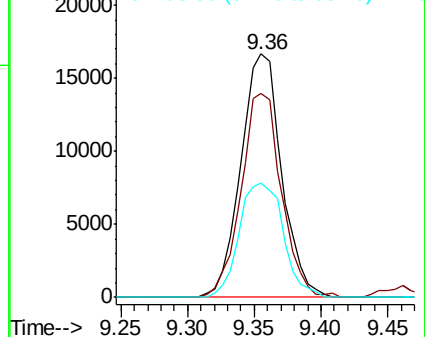
83 100

55 83.6 61.7 92.5

98 47.1 38.6 58.0



Abundance Ion 83.00 (82.70 to 83.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.00 (97.70 to 98.70): VDC



#40

Benzene

Concen: 5.149 ug/l

RT: 8.36 min Scan# 1094

Delta R.T. 0.01 min

Lab File: VD065932.D

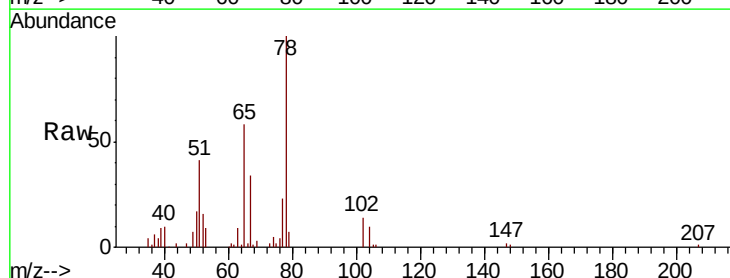
Acq: 07 Jul 2020 20:26

Tgt Ion: 78 Resp: 87628

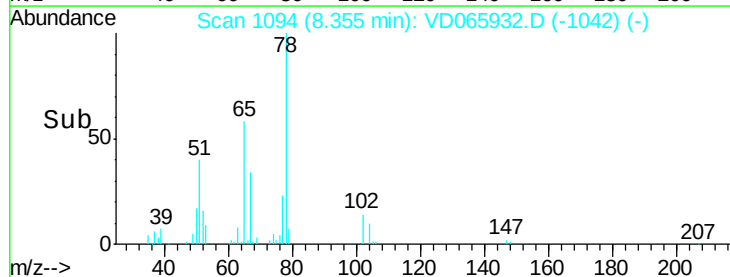
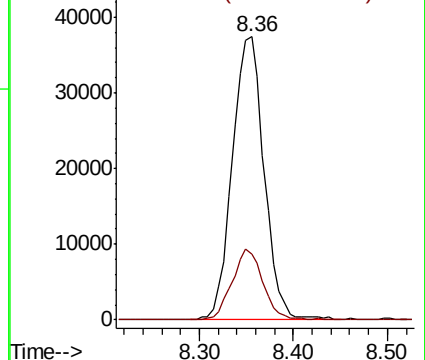
Ion Ratio Lower Upper

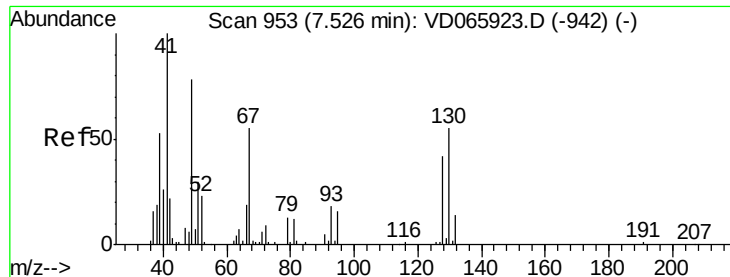
78 100

77 23.1 19.4 29.0



Abundance Ion 78.00 (77.70 to 78.70): VDC
Ion 77.00 (76.70 to 77.70): VDC

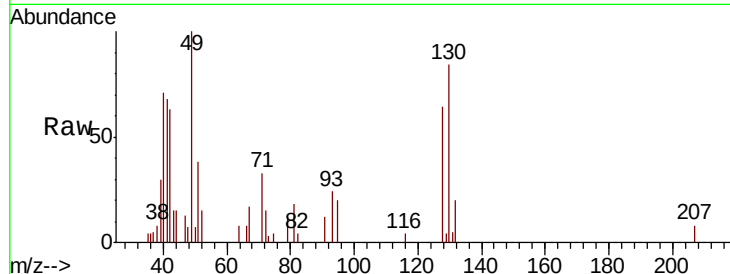




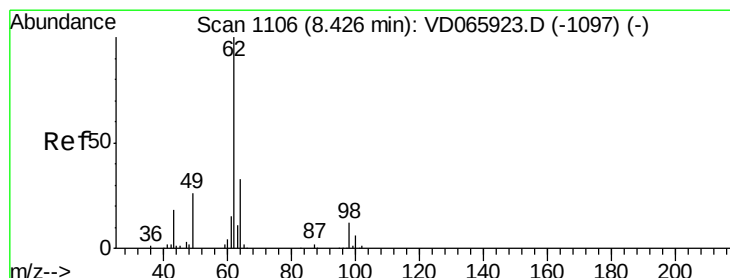
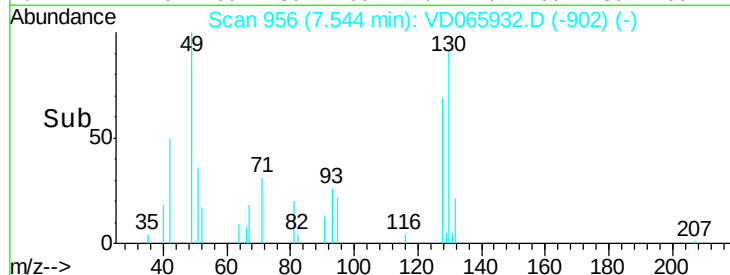
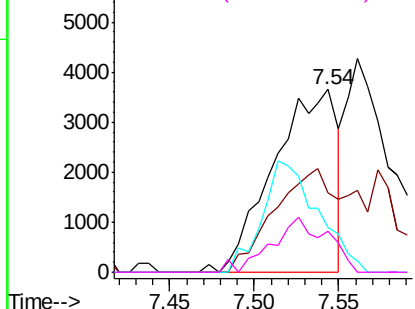
#41
Methacrylonitrile
Concen: 6.378 ug/l
RT: 7.54 min Scan# 956
Delta R.T. 0.02 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2020

Tot Ion:	41	Resp:	9557
Ion	Ratio	Lower	Upper
41	100		
39	58.8	42.4	63.6
67	0.0	53.6	80.4#
52	26.4	22.2	33.2

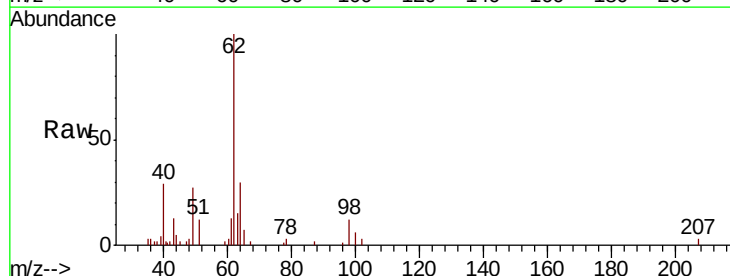


Abundance Ion 41.00 (40.70 to 41.70): VDC
Ion 39.00 (38.70 to 39.70): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

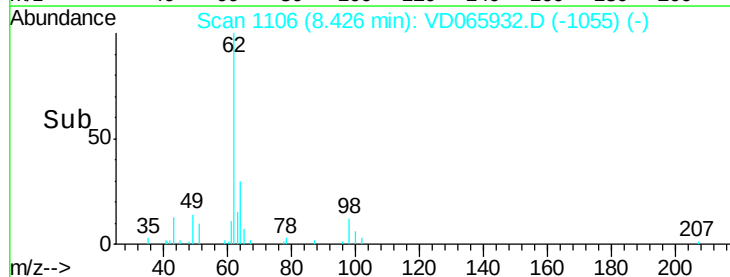
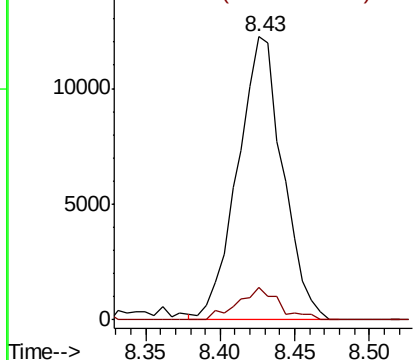


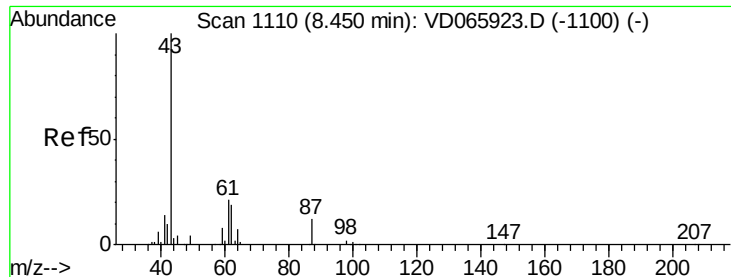
#42
1,2-Dichloroethane
Concen: 5.328 ug/l
RT: 8.43 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Tgt Ion:	62	Resp:	25684
Ion	Ratio	Lower	Upper
62	100		
98	10.5	0.0	20.0



Abundance Ion 61.90 (61.60 to 62.60): VDC
Ion 97.90 (97.60 to 98.60): VDC





#43

Isopropyl Acetate

Concen: 4.751 ug/l

RT: 8.45 min Scan# 1110

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2020

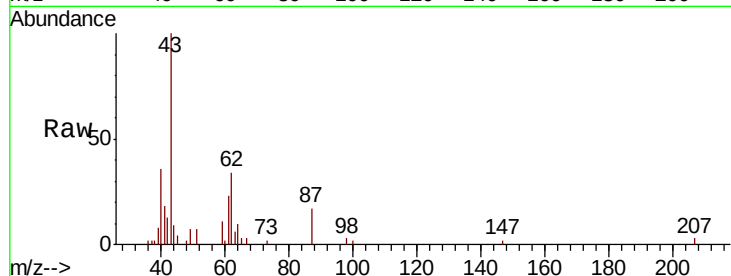
Tot Ion: 43 Resp: 22822

Ion Ratio Lower Upper

43 100

61 32.6 23.2 34.8

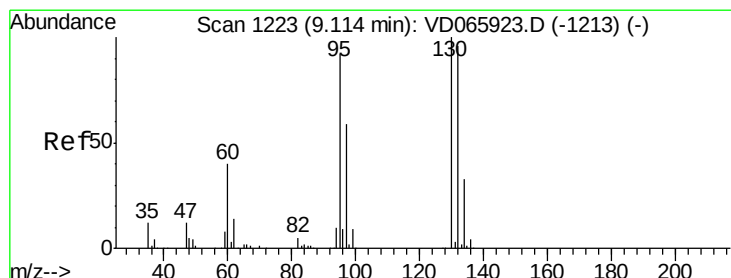
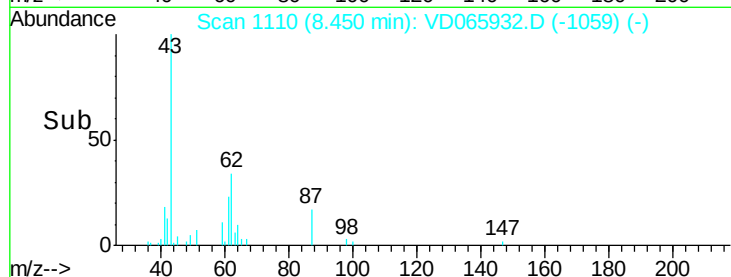
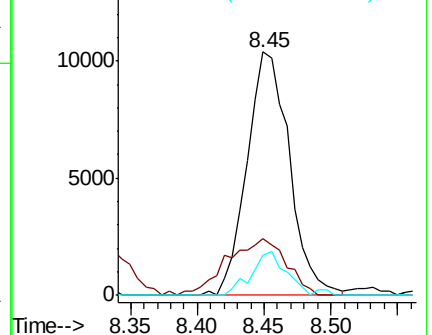
87 14.5 10.0 15.0



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 61.00 (60.70 to 61.70): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 4.968 ug/l

RT: 9.11 min Scan# 1222

Delta R.T. -0.01 min

Lab File: VD065932.D

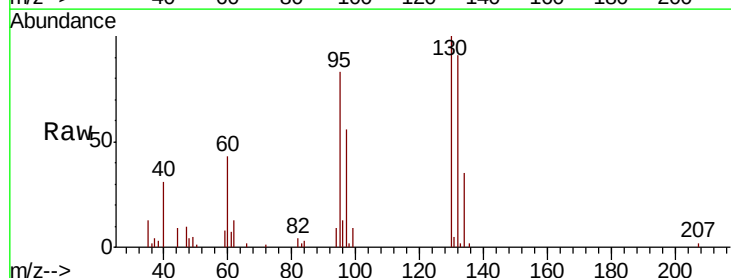
Acq: 07 Jul 2020 20:26

Tgt Ion:130 Resp: 24839

Ion Ratio Lower Upper

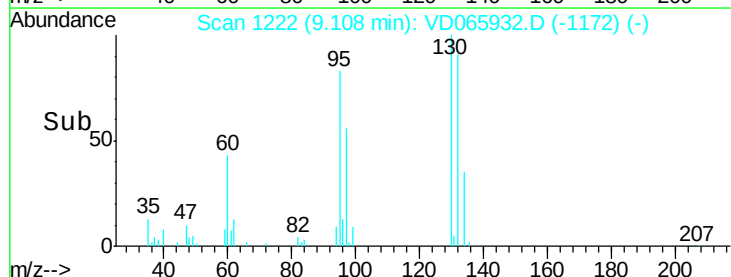
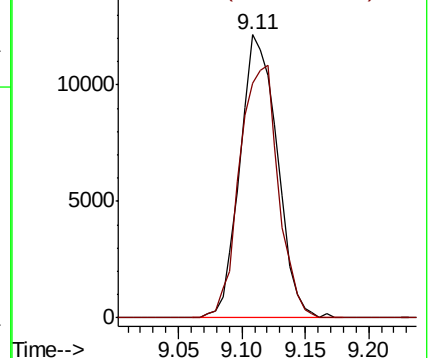
130 100

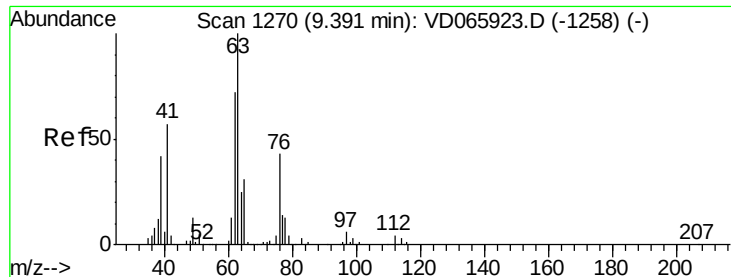
95 82.9 0.0 184.6



Abundance Ion 129.80 (129.50 to 130.50): VDC

Ion 94.90 (94.60 to 95.60): VDC

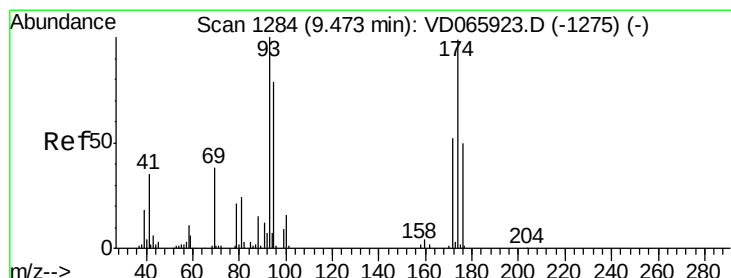
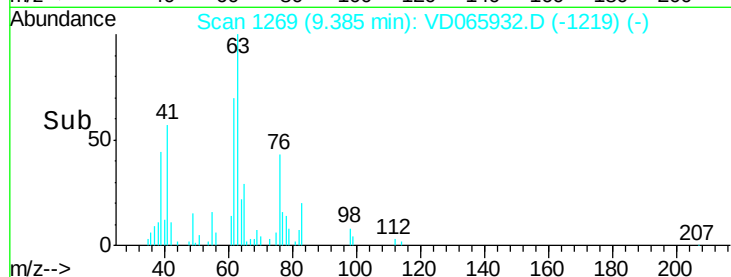
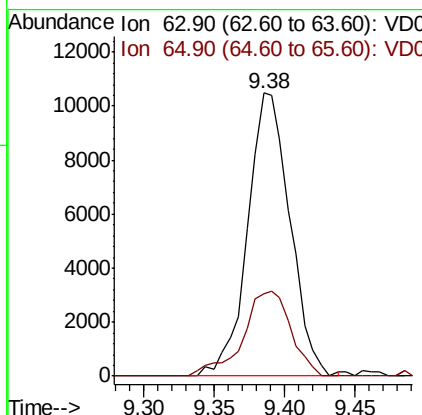
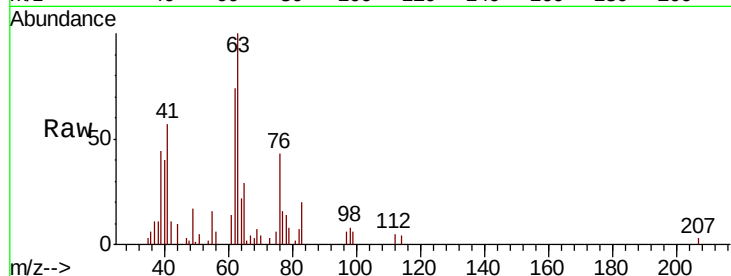




#45
 1,2-Dichloropropane
 Concen: 5.226 ug/l
 RT: 9.38 min Scan# 1269
 Delta R.T. -0.01 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

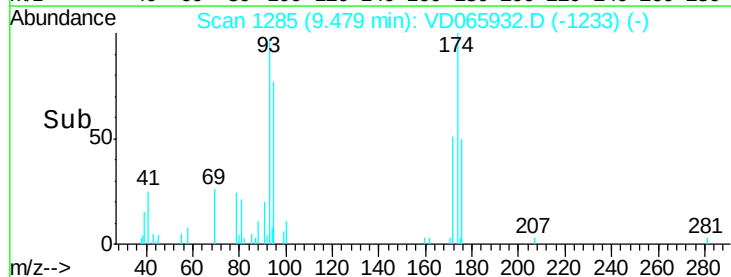
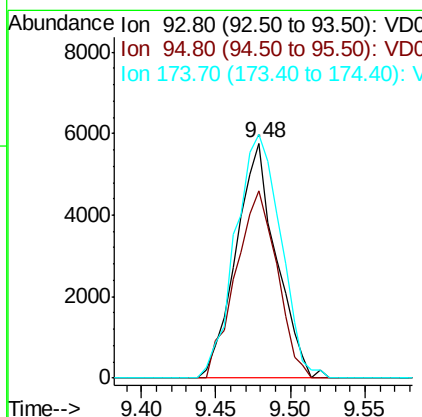
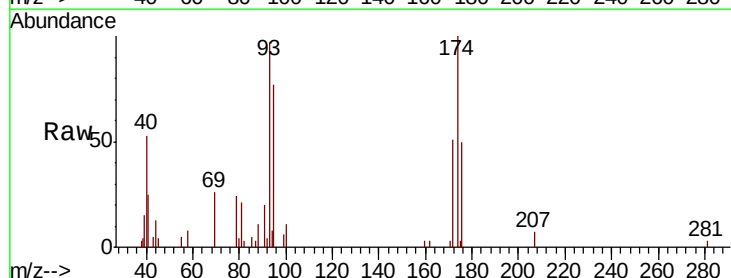
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2020

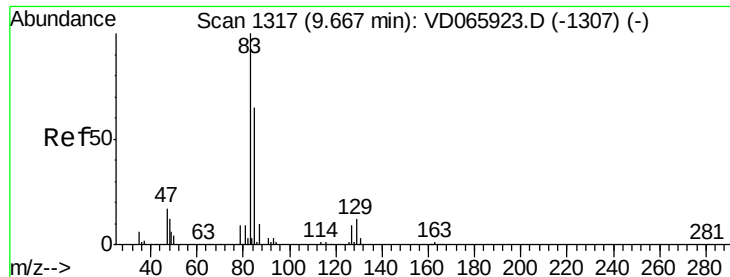
Tot Ion: 63 Resp: 22071
 Ion Ratio Lower Upper
 63 100
 65 29.2 25.0 37.6



#46
 Dibromomethane
 Concen: 4.912 ug/l
 RT: 9.48 min Scan# 1285
 Delta R.T. 0.01 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

Tgt Ion: 93 Resp: 10802
 Ion Ratio Lower Upper
 93 100
 95 82.1 68.2 102.2
 174 116.8 88.0 132.0





#47

Bromodichloromethane

Concen: 5.086 ug/l

RT: 9.67 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2020

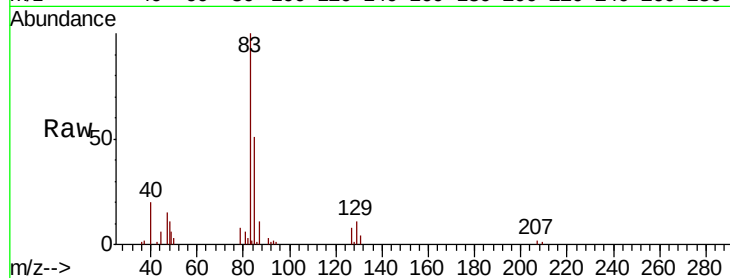
Tot Ion: 83 Resp: 29997

Ion Ratio Lower Upper

83 100

85 51.3 51.6 77.4#

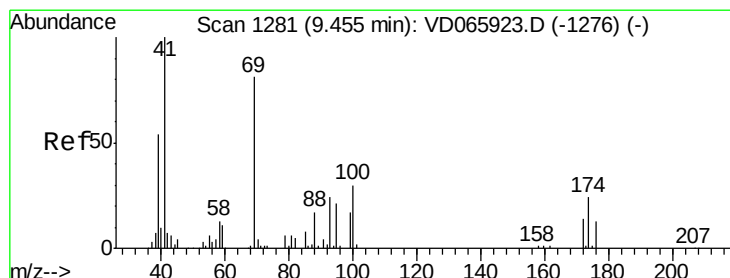
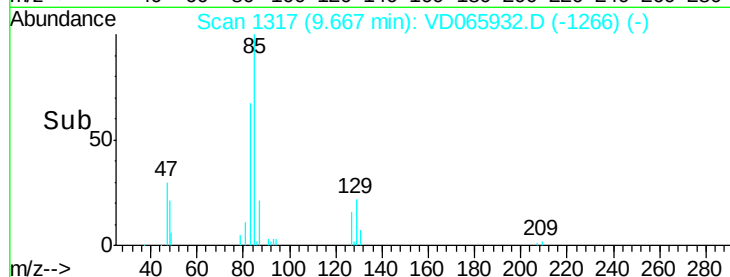
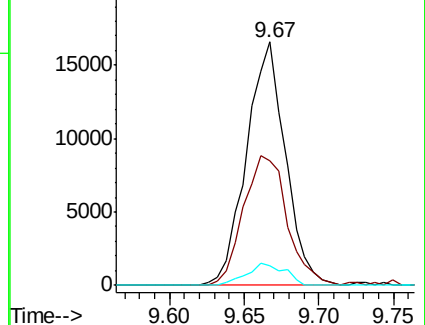
127 8.2 7.2 10.8



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 126.80 (126.50 to 127.50): VDC



#48

Methyl methacrylate

Concen: 4.777 ug/l

RT: 9.46 min Scan# 1282

Delta R.T. 0.01 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

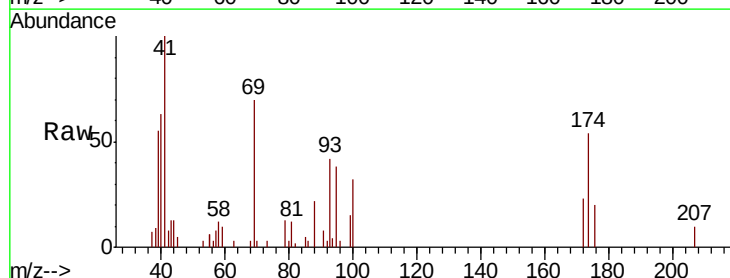
Tgt Ion: 41 Resp: 11552

Ion Ratio Lower Upper

41 100

69 82.1 62.2 93.4

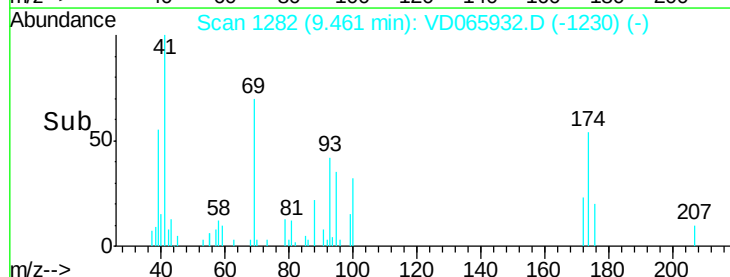
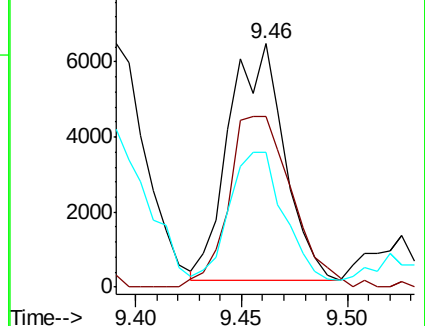
39 52.6 39.9 59.9

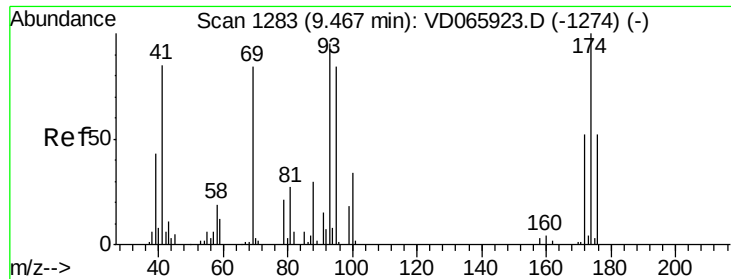


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 39.00 (38.70 to 39.70): VDC





#49

1,4-Dioxane

Concen: 110.230 ug/l

RT: 9.46 min Scan# 1282

Delta R.T. -0.01 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2020

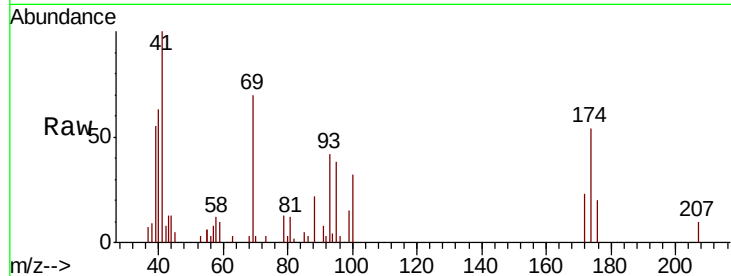
Tot Ion: 88 Resp: 2880

Ion Ratio Lower Upper

88 100

43 34.3 28.2 42.4

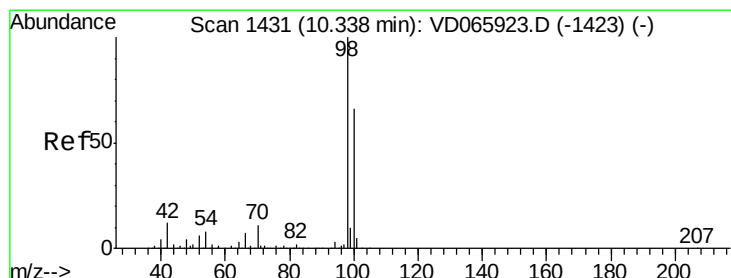
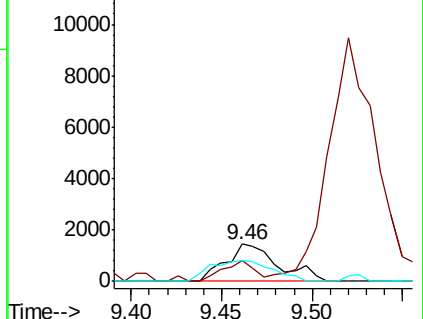
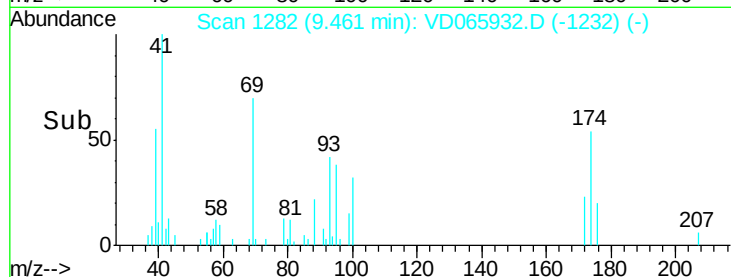
58 65.8 58.6 87.8



Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#50

Toluene-d8

Concen: 46.972 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.01 min

Lab File: VD065932.D

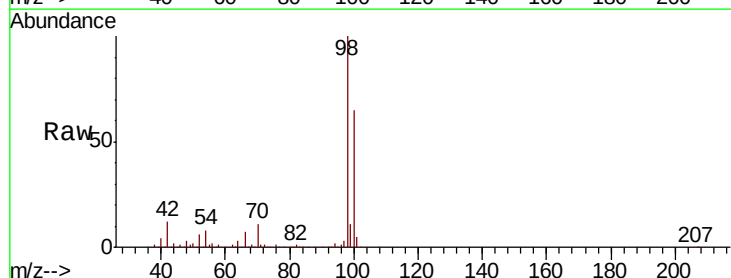
Acq: 07 Jul 2020 20:26

Tgt Ion: 98 Resp: 659388

Ion Ratio Lower Upper

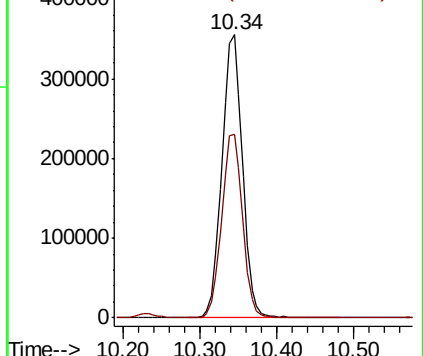
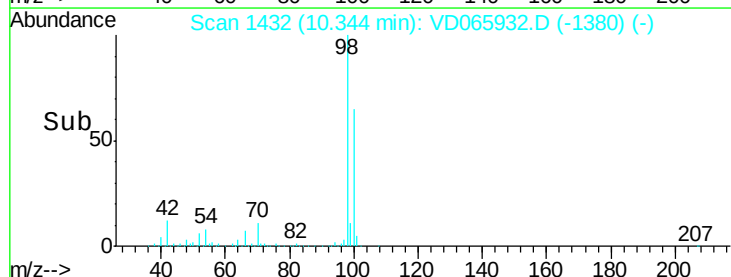
98 100

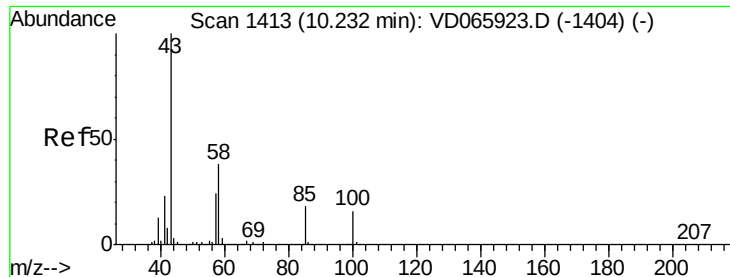
100 65.9 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC





#51

4-Methyl-2-Pentanone

Concen: 24.399 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

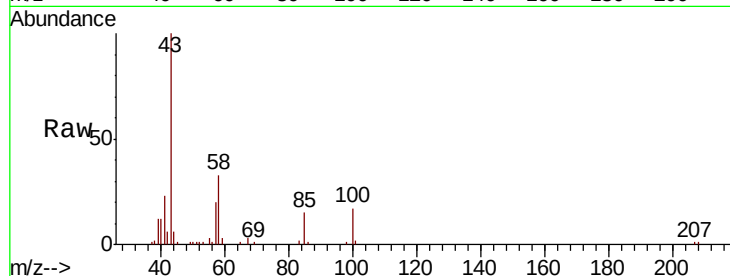
LOQ-SOIL-02-QT3-2020

Tot Ion: 43 Resp: 59260

Ion Ratio Lower Upper

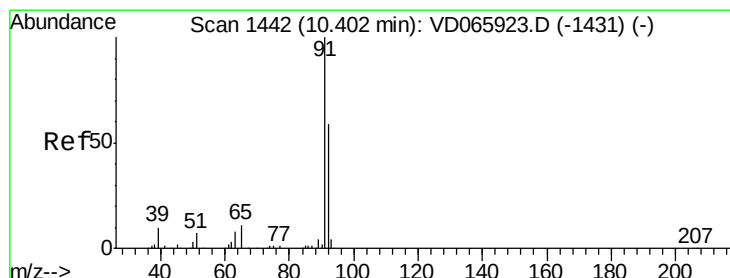
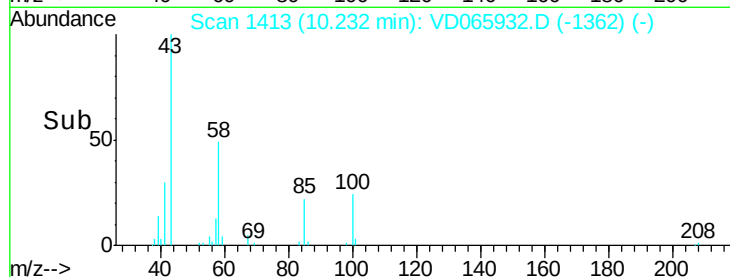
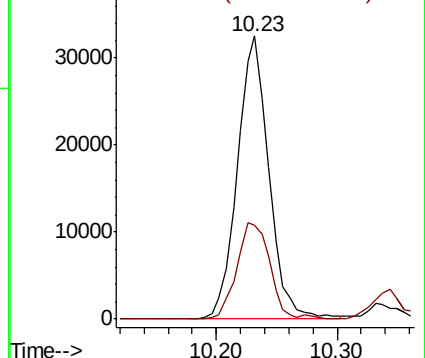
43 100

58 35.9 30.5 45.7



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#52

Toluene

Concen: 5.167 ug/l

RT: 10.40 min Scan# 1442

Delta R.T. -0.00 min

Lab File: VD065932.D

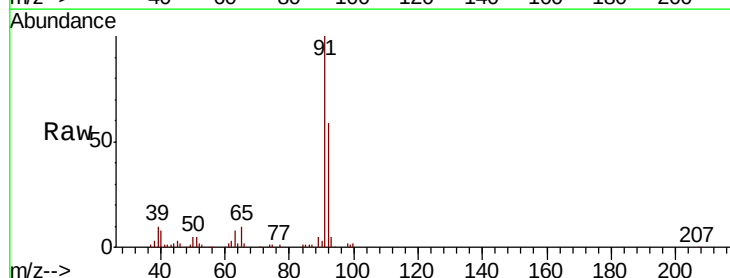
Acq: 07 Jul 2020 20:26

Tgt Ion: 92 Resp: 55942

Ion Ratio Lower Upper

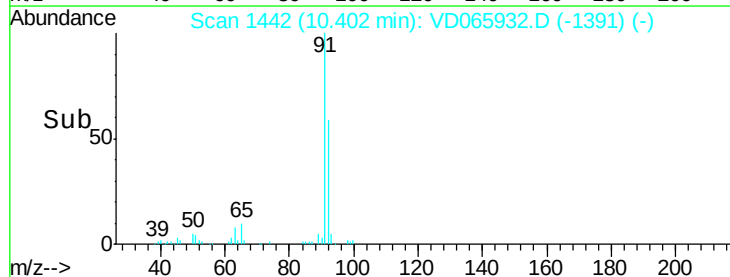
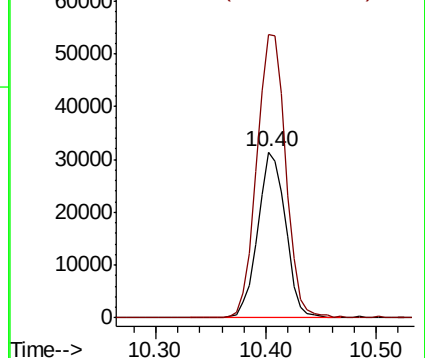
92 100

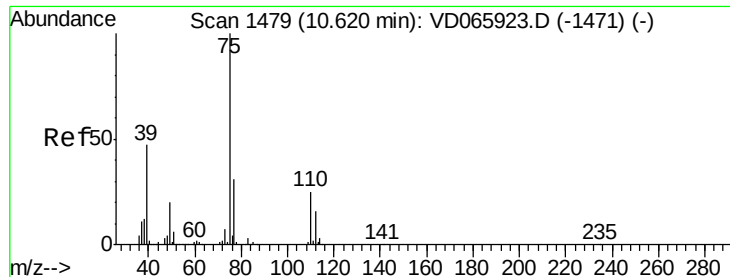
91 177.5 136.0 204.0



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#53

t-1,3-Dichloropropene

Concen: 4.631 ug/l

RT: 10.63 min Scan# 1480

Delta R.T. 0.01 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

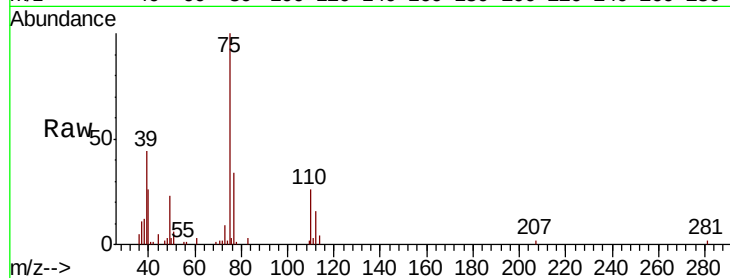
LOQ-SOIL-02-QT3-2020

Tot Ion: 75 Resp: 25684

Ion Ratio Lower Upper

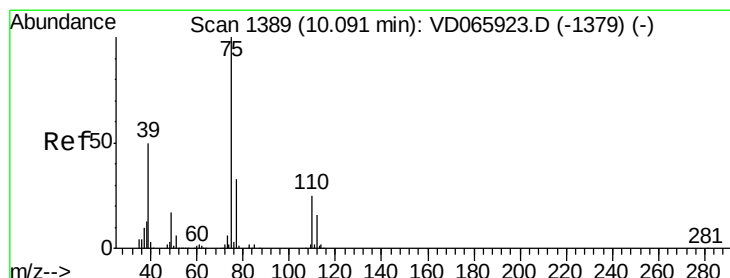
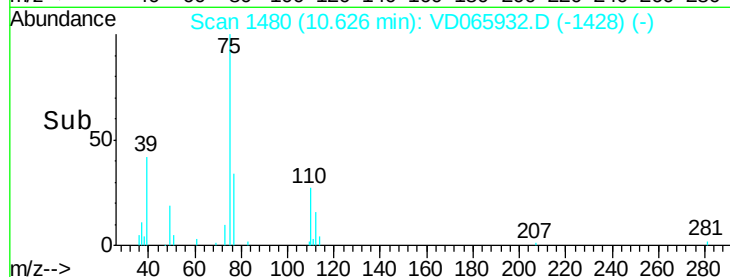
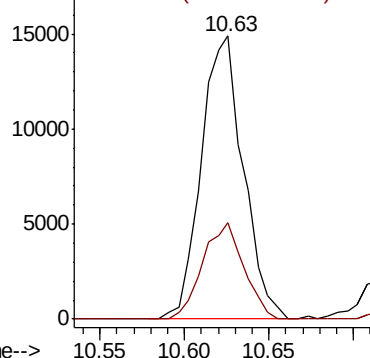
75 100

77 34.0 25.1 37.7



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC



#54

cis-1,3-Dichloropropene

Concen: 4.874 ug/l

RT: 10.09 min Scan# 1389

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

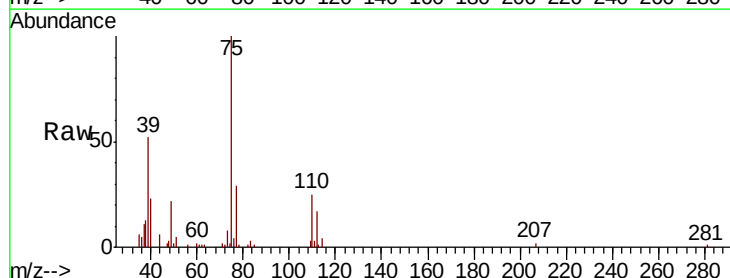
Tgt Ion: 75 Resp: 32662

Ion Ratio Lower Upper

75 100

77 28.9 26.6 39.8

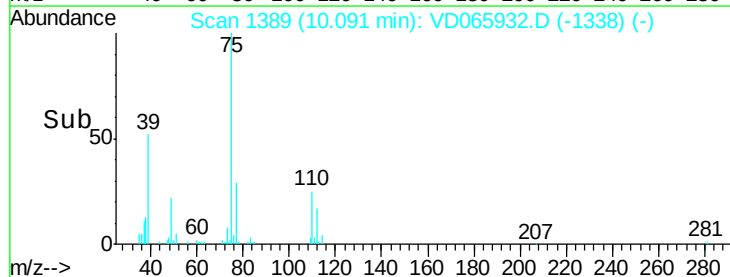
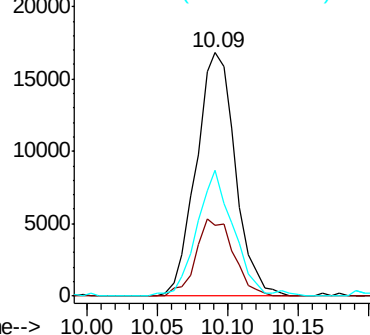
39 51.9 39.6 59.4

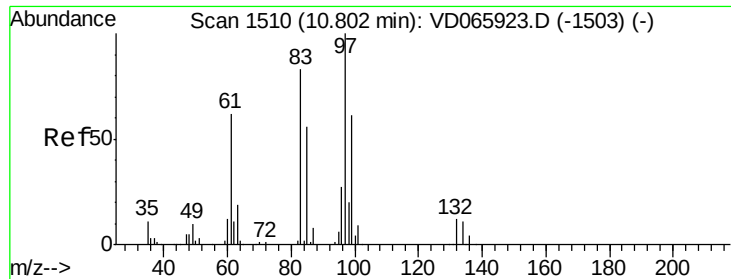


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC

Ion 39.00 (38.70 to 39.70): VDC

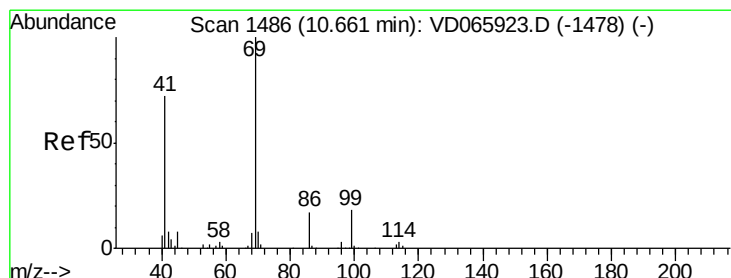
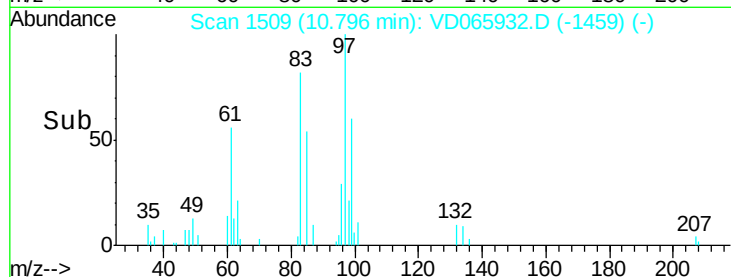
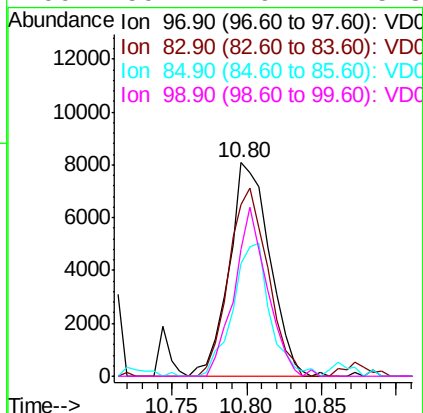
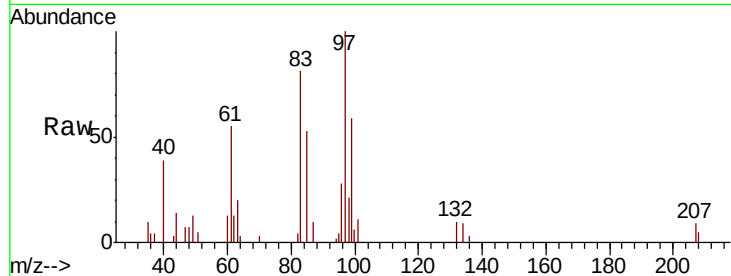




#55
 1,1,2-Trichloroethane
 Concen: 5.070 ug/l
 RT: 10.80 min Scan# 1509
 Delta R.T. -0.01 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

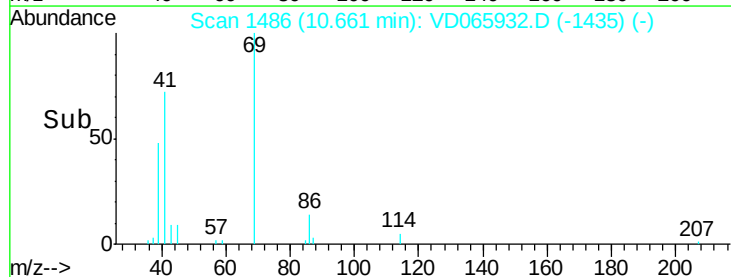
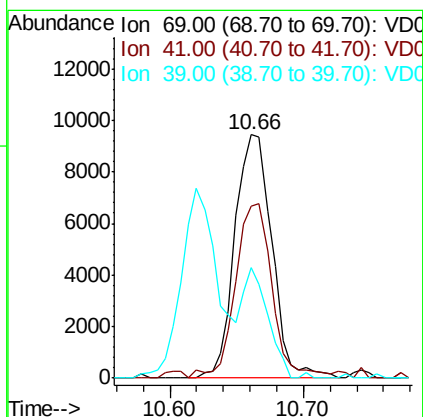
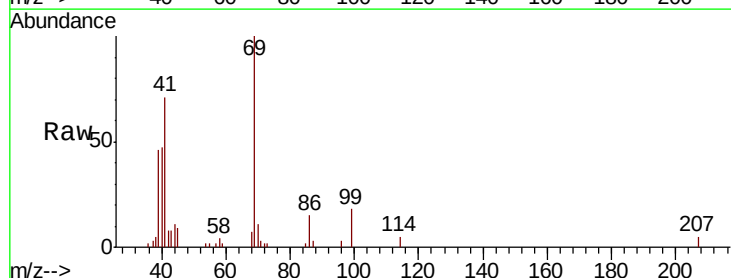
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2020

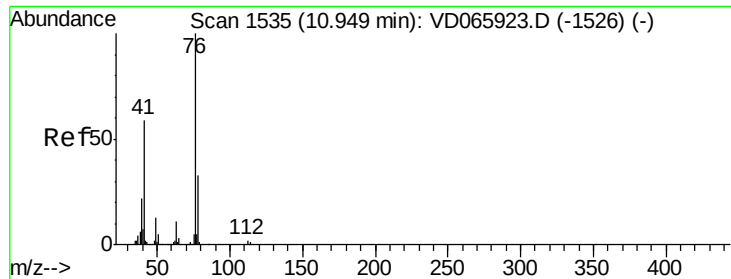
Tot Ion:	97	Resp:	15361
Ion	Ratio	Lower	Upper
97	100		
83	80.5	66.9	100.3
85	52.9	44.5	66.7
99	59.2	49.2	73.8



#56
 Ethyl methacrylate
 Concen: 4.920 ug/l
 RT: 10.66 min Scan# 1486
 Delta R.T. -0.00 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

Tgt Ion:	69	Resp:	18207
Ion	Ratio	Lower	Upper
69	100		
41	71.7	56.5	84.7
39	30.8	29.2	43.8

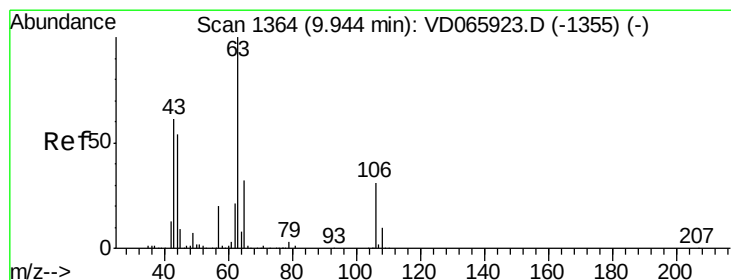
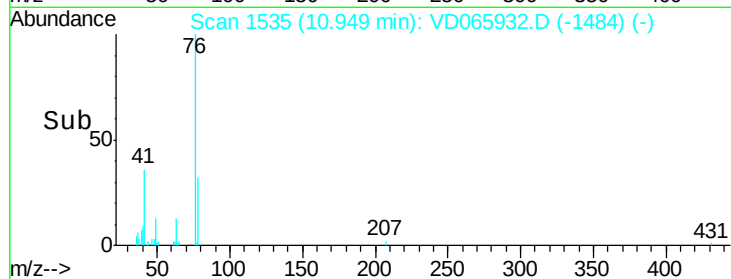
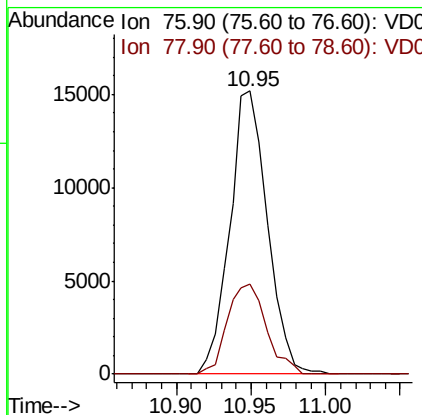
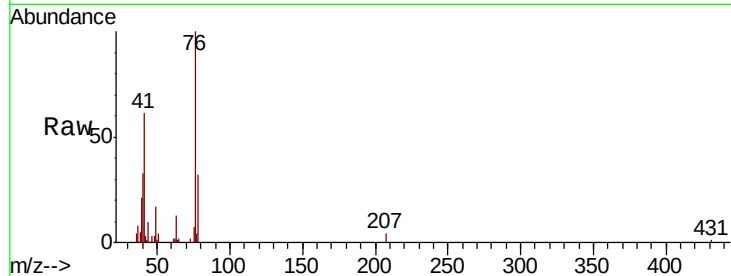




#57
 1,3-Dichloropropane
 Concen: 5.026 ug/l
 RT: 10.95 min Scan# 1535
 Delta R.T. -0.00 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

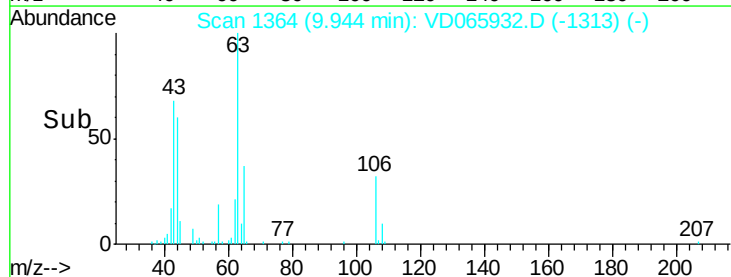
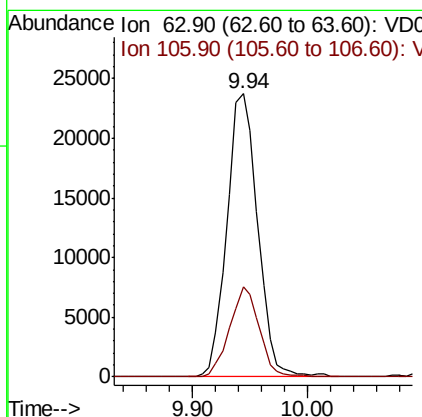
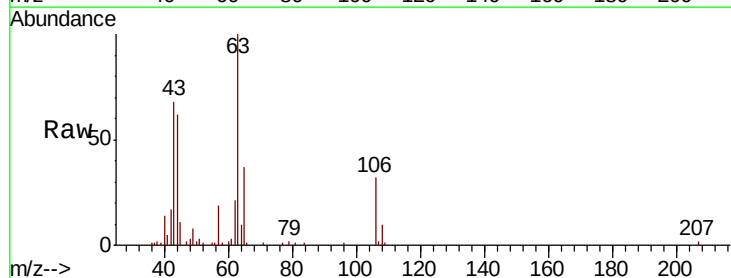
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2020

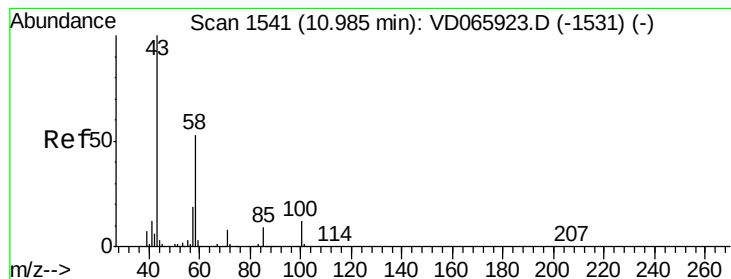
Tot Ion: 76 Resp: 26629
 Ion Ratio Lower Upper
 76 100
 78 33.1 25.8 38.6



#58
 2-Chloroethyl Vinyl ether
 Concen: 24.434 ug/l
 RT: 9.94 min Scan# 1364
 Delta R.T. -0.00 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

Tgt Ion: 63 Resp: 43787
 Ion Ratio Lower Upper
 63 100
 106 30.6 23.8 35.6





#59

2-Hexanone

Concen: 22.639 ug/l

RT: 10.98 min Scan# 1541

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

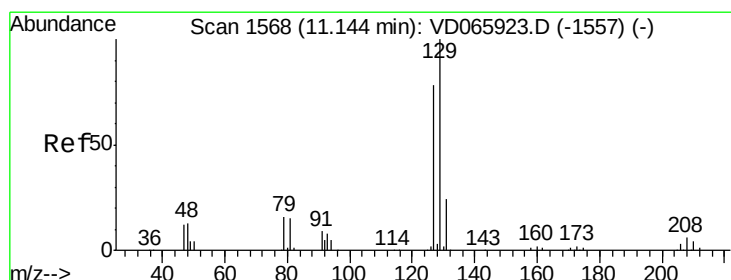
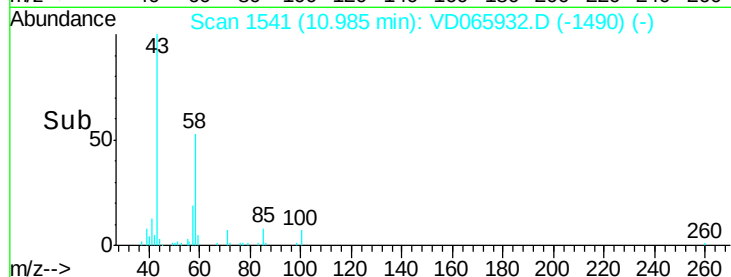
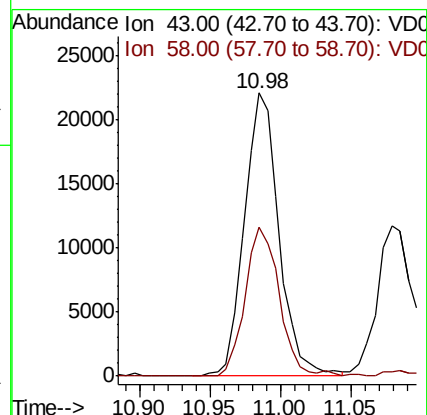
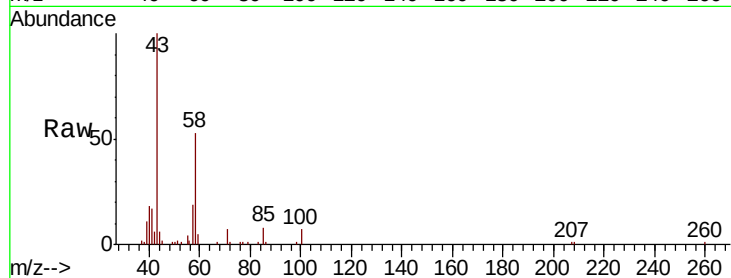
LOQ-SOIL-02-QT3-2020

Tot Ion: 43 Resp: 37815

Ion Ratio Lower Upper

43 100

58 52.4 26.6 79.8



#60

Dibromochloromethane

Concen: 5.001 ug/l

RT: 11.14 min Scan# 1567

Delta R.T. -0.01 min

Lab File: VD065932.D

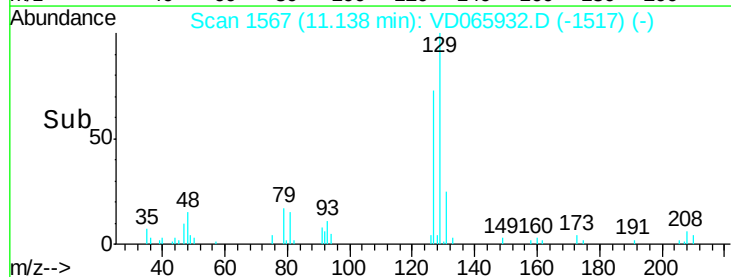
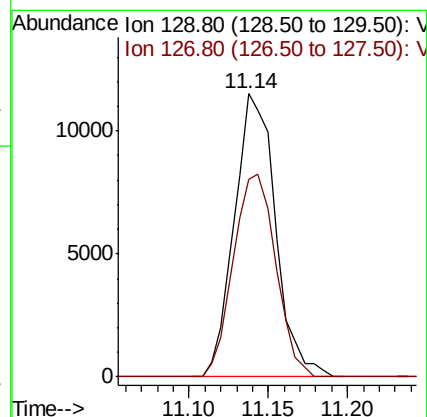
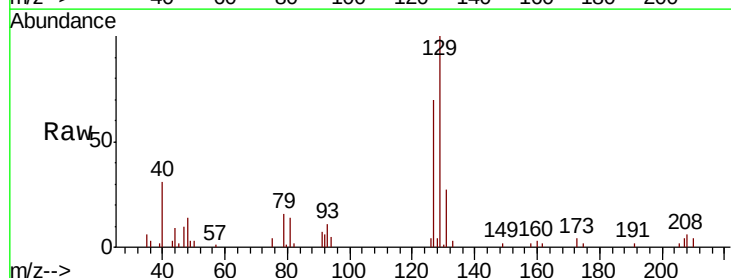
Acq: 07 Jul 2020 20:26

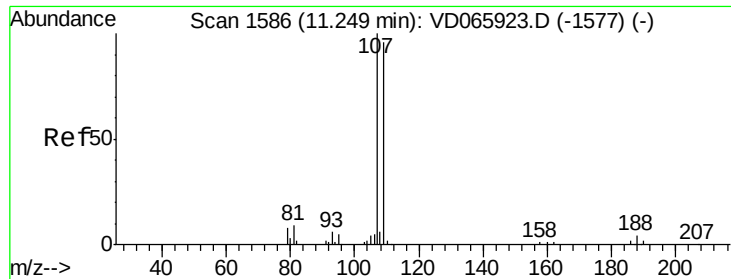
Tgt Ion: 129 Resp: 20700

Ion Ratio Lower Upper

129 100

127 74.1 38.8 116.4

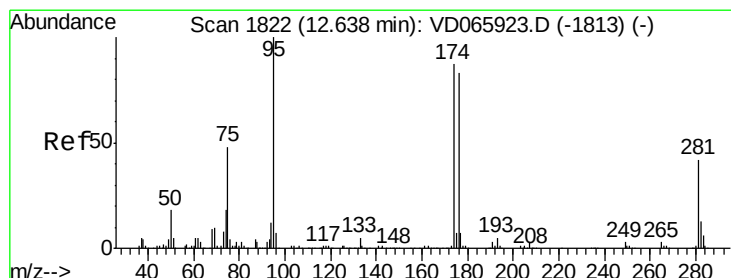
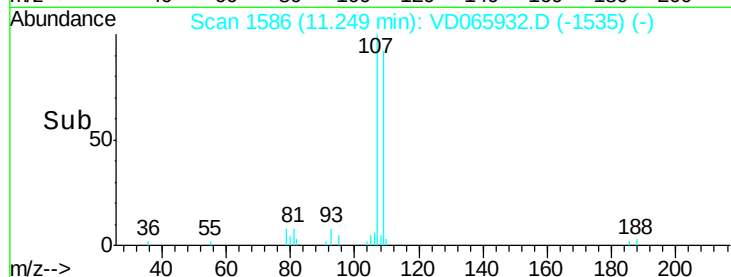
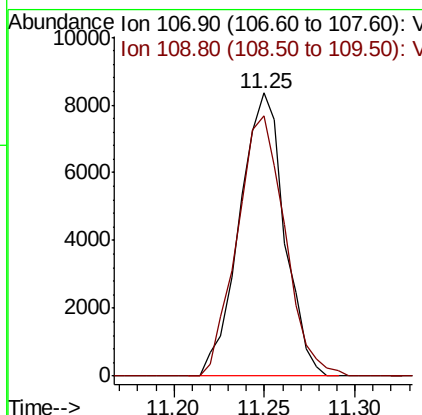
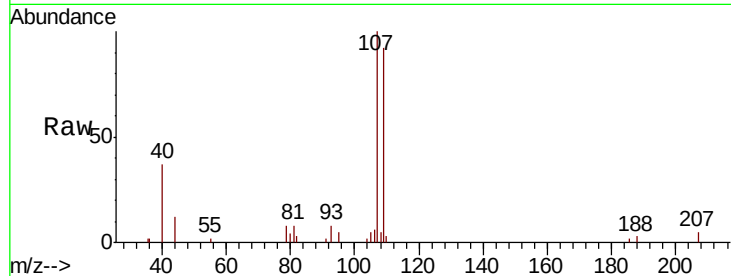




#61
 1,2-Dibromoethane
 Concen: 4.769 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. -0.00 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

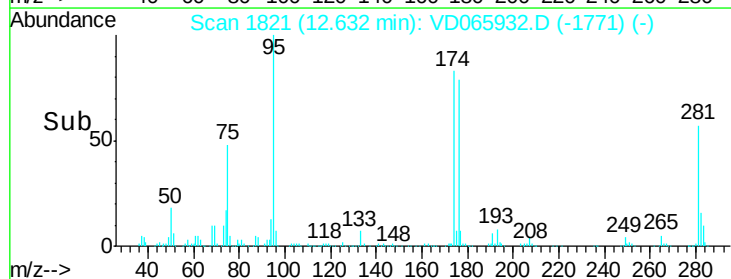
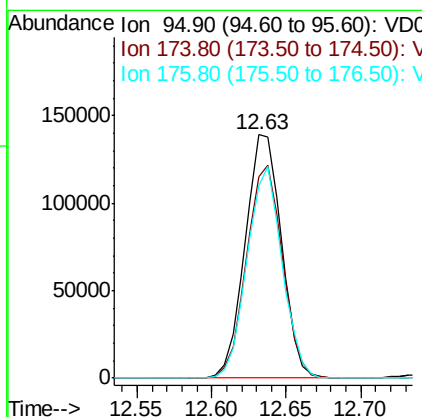
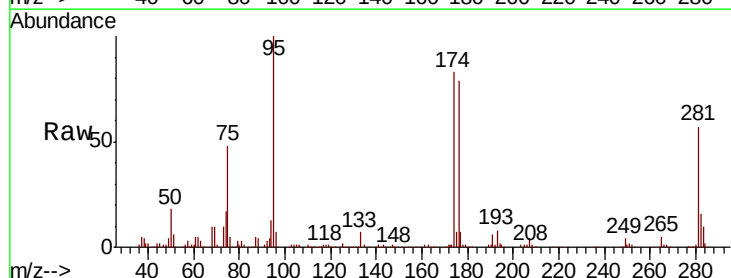
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2020

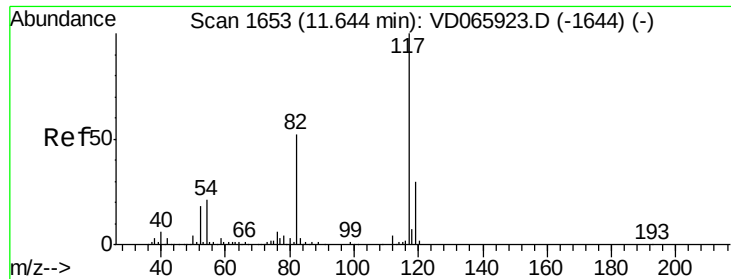
Tot Ion:107 Resp: 14405
 Ion Ratio Lower Upper
 107 100
 109 97.7 75.4 113.0



#62
 4-Bromofluorobenzene
 Concen: 48.616 ug/l
 RT: 12.63 min Scan# 1821
 Delta R.T. -0.01 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

Tgt Ion: 95 Resp: 234361
 Ion Ratio Lower Upper
 95 100
 174 86.4 0.0 169.4
 176 83.4 0.0 164.0

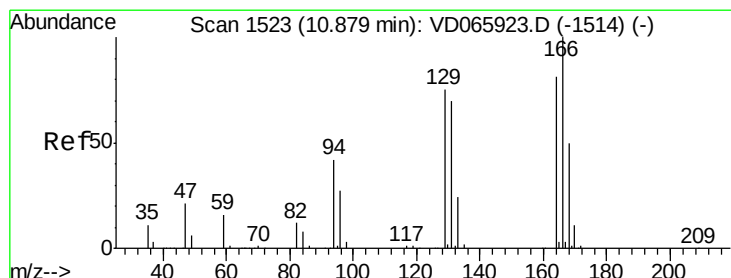
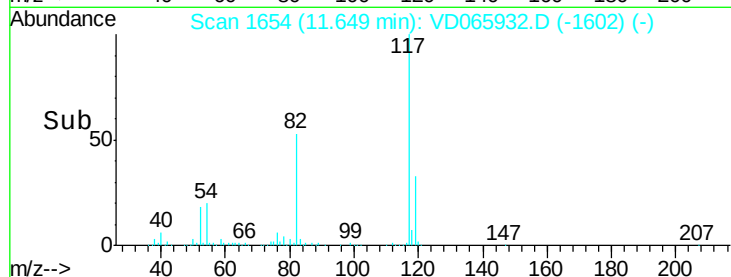
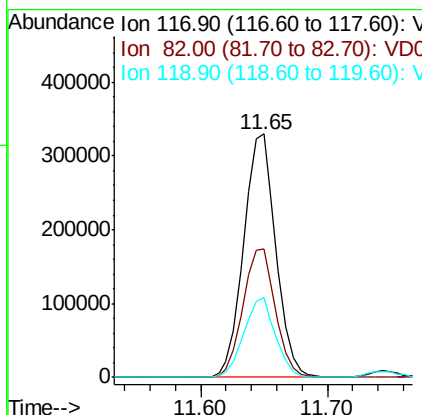
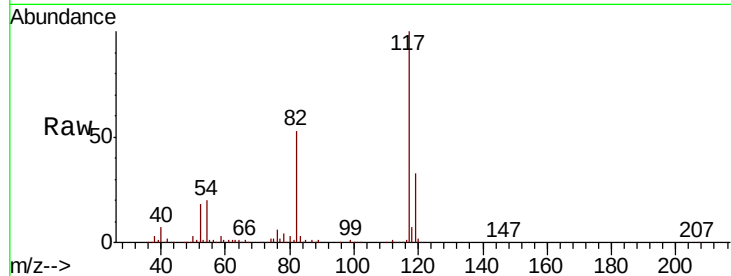




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.01 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

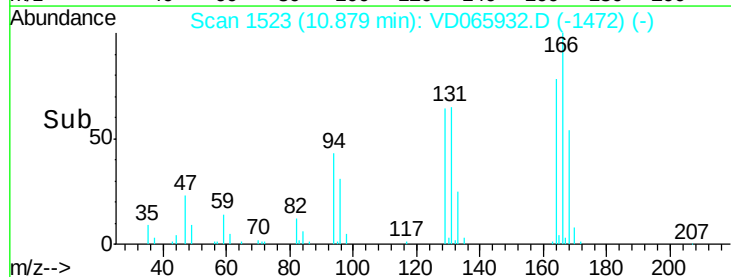
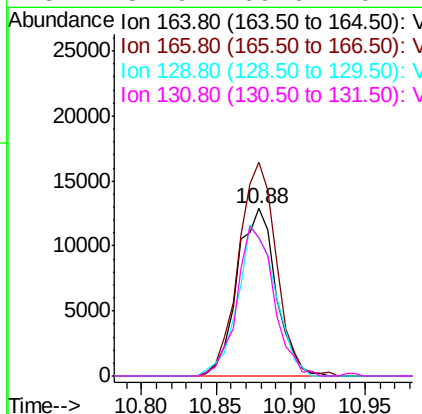
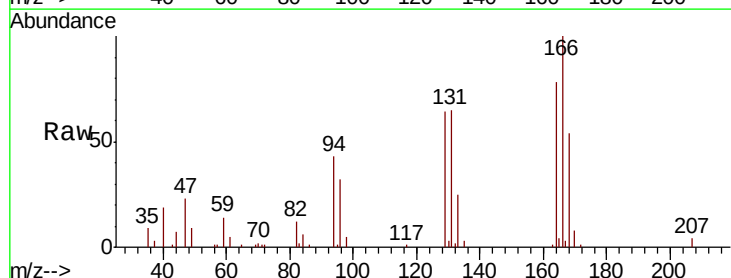
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2020

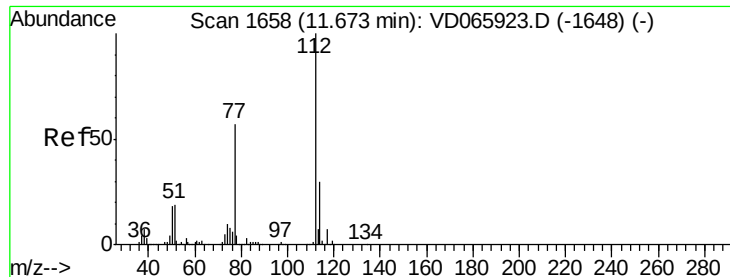
Tot Ion:117 Resp: 581134
Ion Ratio Lower Upper
117 100
82 52.5 41.8 62.8
119 32.6 24.3 36.5



#64
Tetrachloroethene
Concen: 5.522 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Tgt Ion:164 Resp: 23337
Ion Ratio Lower Upper
164 100
166 127.7 99.0 148.4
129 82.3 73.9 110.9
131 82.9 69.6 104.4





#65

Chlorobenzene

Concen: 5.178 ug/l

RT: 11.67 min Scan# 1658

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

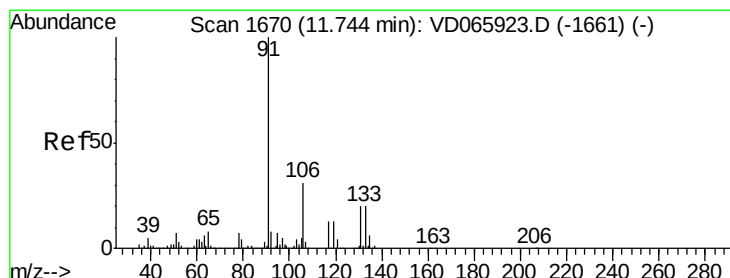
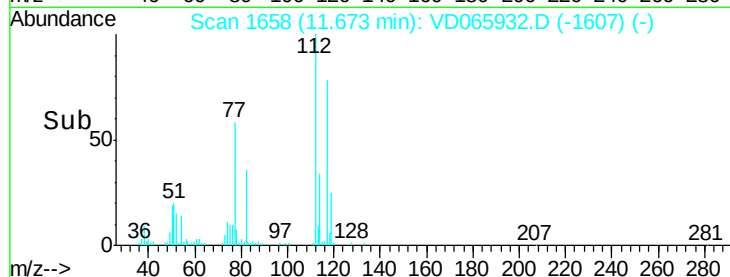
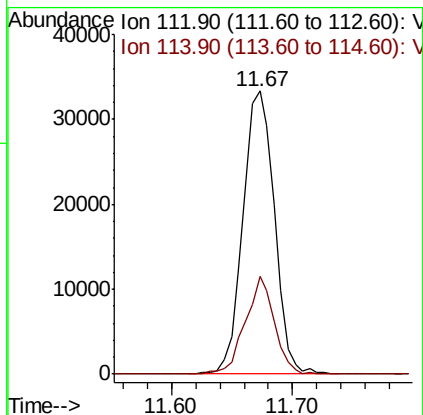
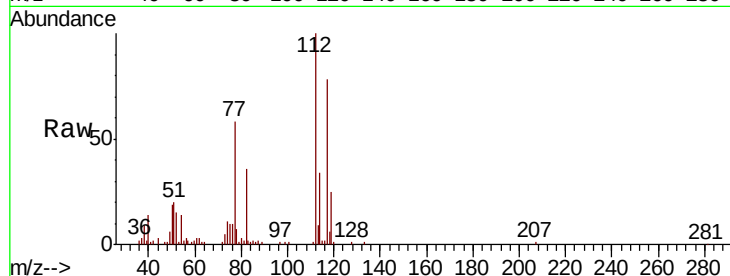
LOQ-SOIL-02-QT3-2020

Tot Ion:112 Resp: 60639

Ion Ratio Lower Upper

112 100

114 34.4 24.2 36.4



#66

1,1,1,2-Tetrachloroethane

Concen: 5.198 ug/l

RT: 11.74 min Scan# 1670

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

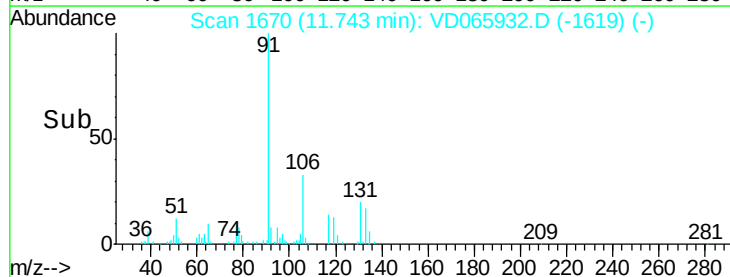
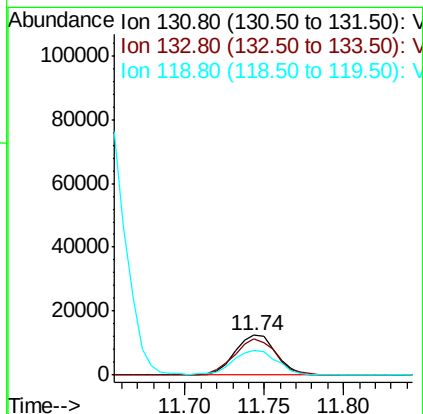
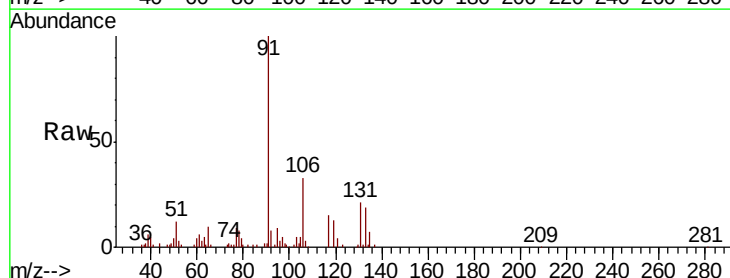
Tgt Ion:131 Resp: 22769

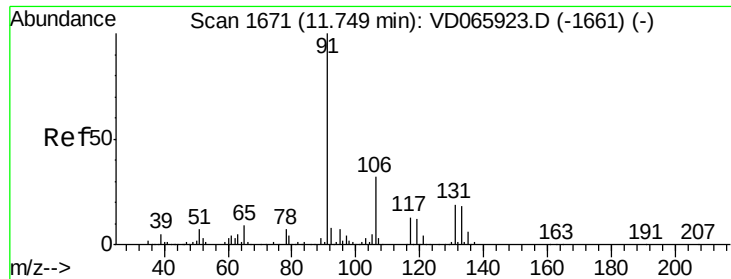
Ion Ratio Lower Upper

131 100

133 92.2 47.9 143.6

119 65.6 31.9 95.9

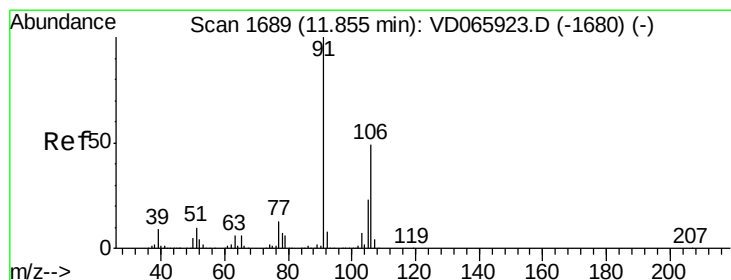
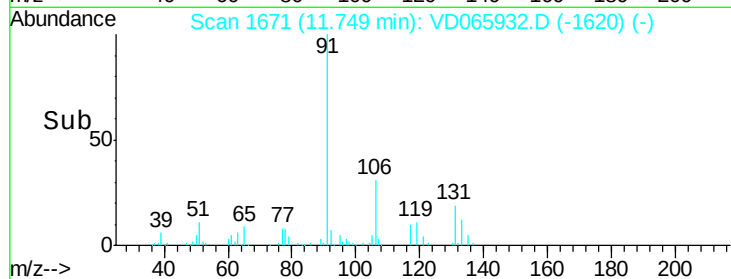
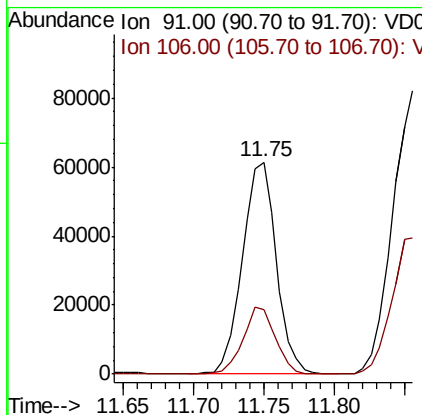
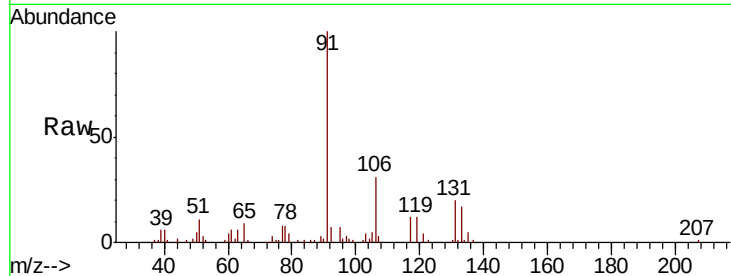




#67
Ethyl Benzene
Concen: 4.978 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

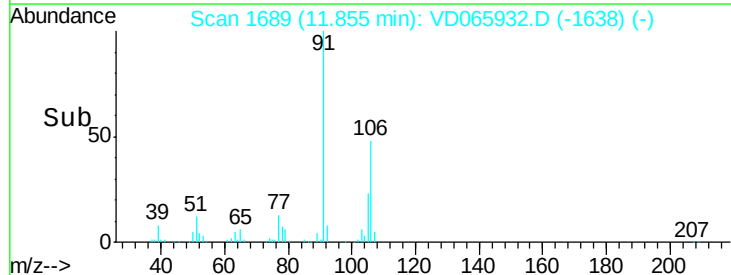
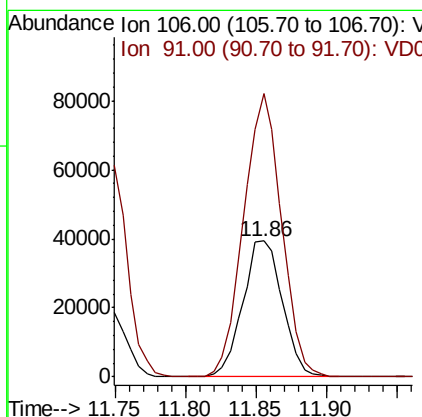
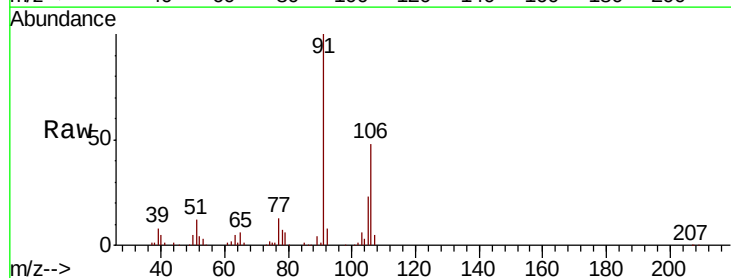
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2020

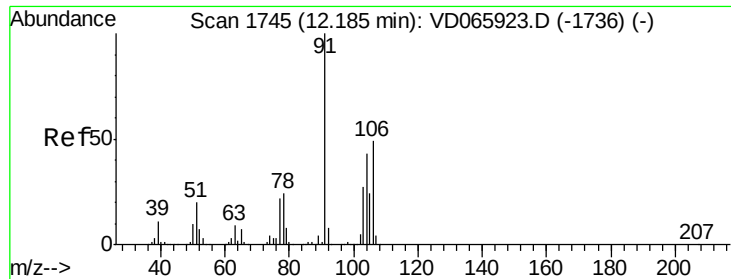
Tot Ion: 91 Resp: 103567
Ion Ratio Lower Upper
91 100
106 30.6 25.2 37.8



#68
m/p-Xylenes
Concen: 9.817 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Tgt Ion: 106 Resp: 77593
Ion Ratio Lower Upper
106 100
91 199.3 158.2 237.2

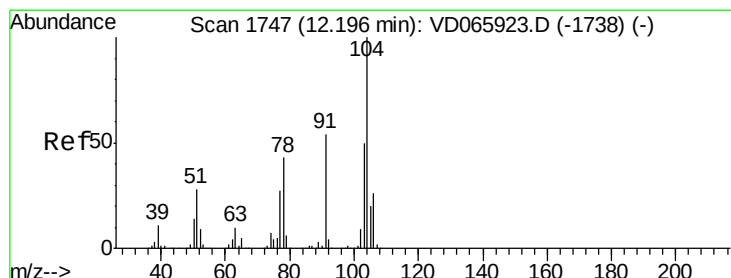
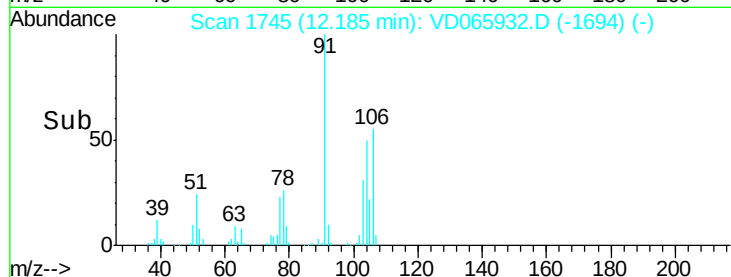
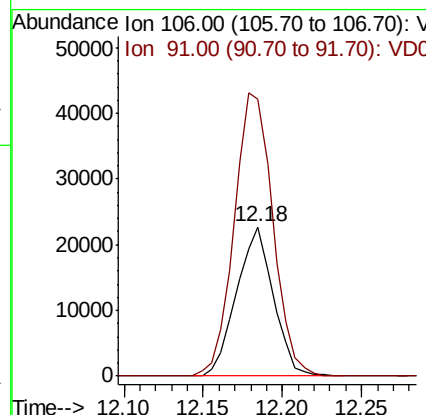
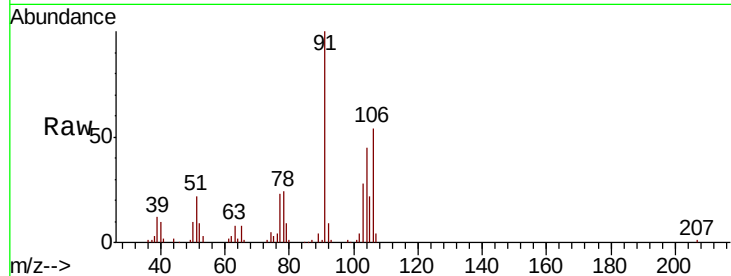




#69
o-Xylene
Concen: 5.065 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

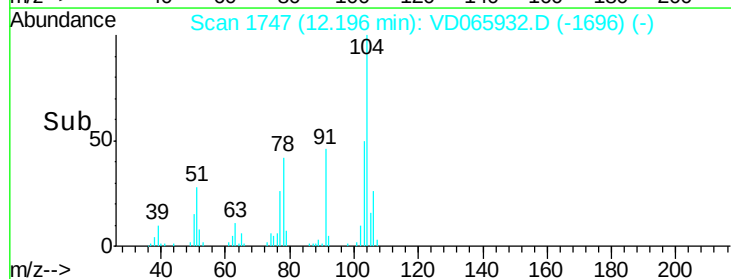
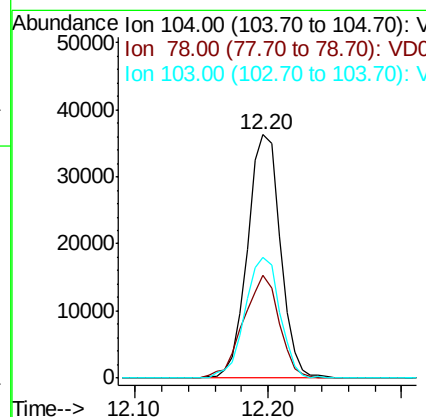
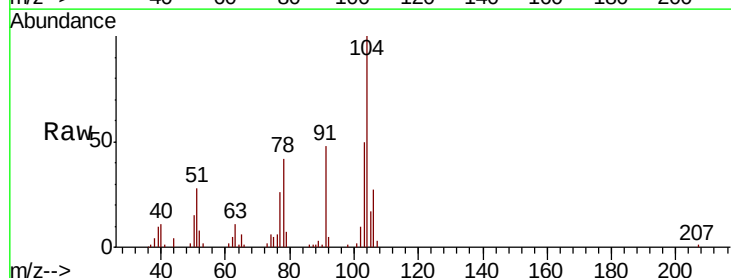
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2020

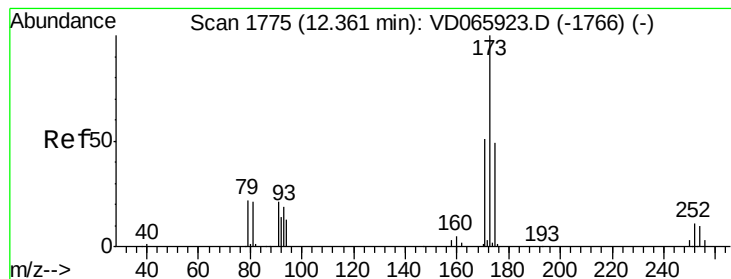
Tot Ion:106 Resp: 36471
Ion Ratio Lower Upper
106 100
91 199.7 104.1 312.2



#70
Styrene
Concen: 4.946 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Tgt Ion:104 Resp: 61483
Ion Ratio Lower Upper
104 100
78 45.9 38.8 58.2
103 52.7 43.6 65.4





#71

Bromoform

Concen: 4.731 ug/l

RT: 12.37 min Scan# 1776

Delta R.T. 0.01 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2020

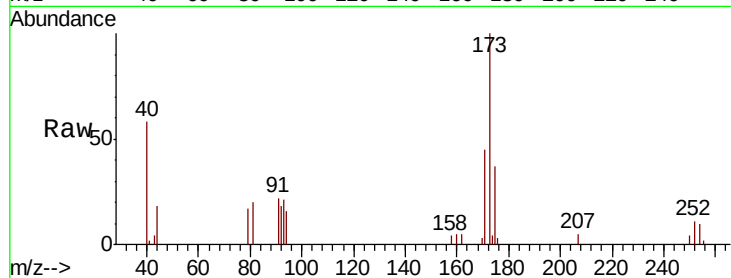
Tot Ion:173 Resp: 11727

Ion Ratio Lower Upper

173 100

175 47.2 24.2 72.6

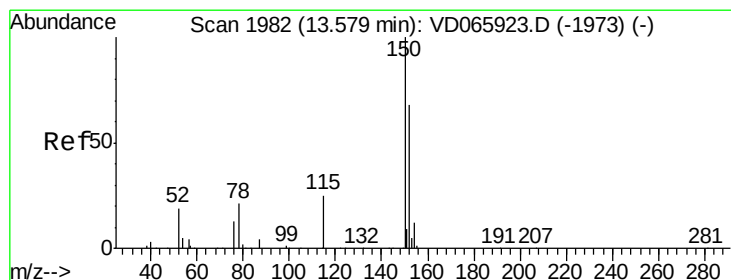
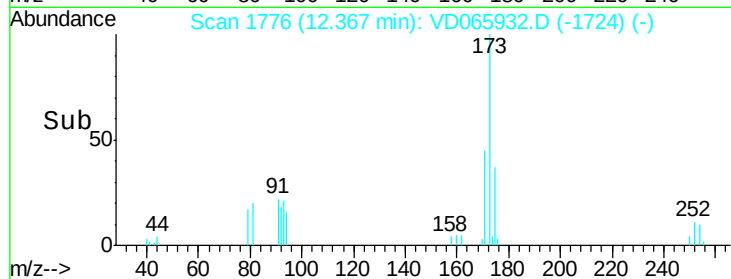
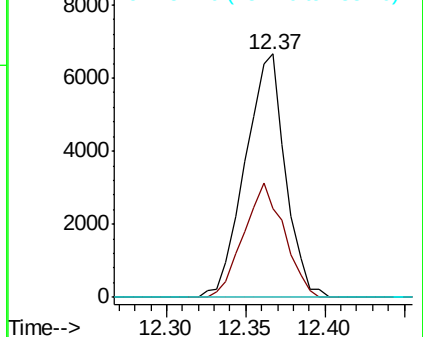
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

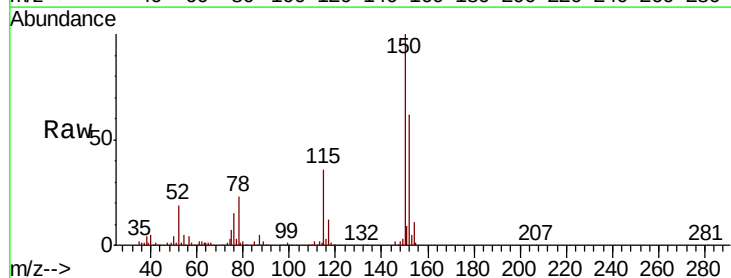
Tgt Ion:152 Resp: 281899

Ion Ratio Lower Upper

152 100

115 56.6 27.8 83.3

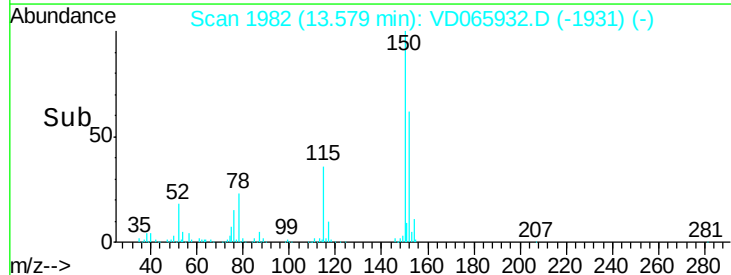
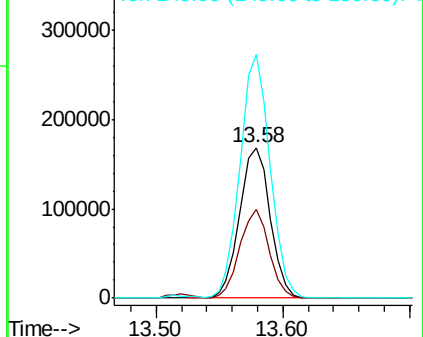
150 159.2 0.0 347.2

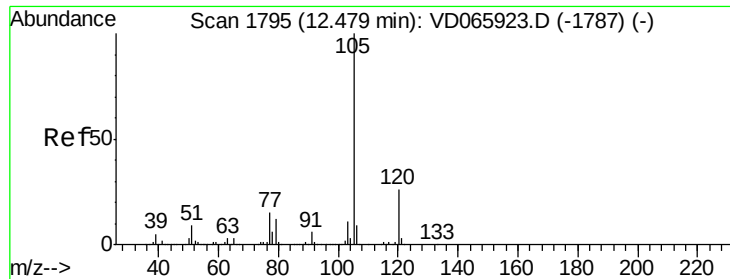


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 4.667 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.01 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

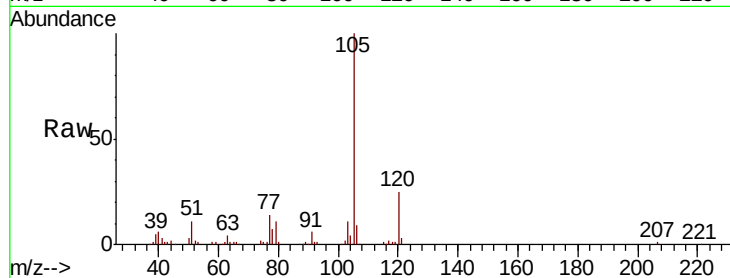
LOQ-SOIL-02-QT3-2020

Tot Ion:105 Resp: 91810

Ion Ratio Lower Upper

105 100

120 26.9 13.3 39.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.48

60000

40000

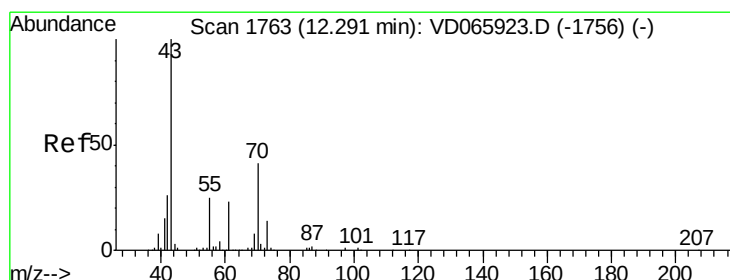
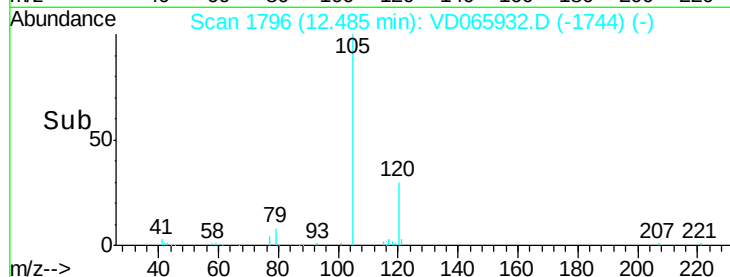
20000

0

Time-->

12.40

12.50



#74

N-ethyl acetate

Concen: 4.669 ug/l

RT: 12.29 min Scan# 1763

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Tgt Ion: 43 Resp: 20613

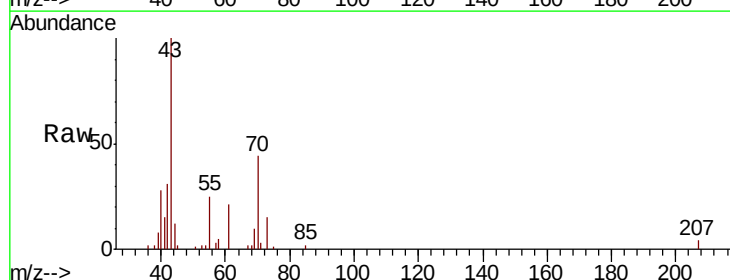
Ion Ratio Lower Upper

43 100

70 41.9 33.6 50.4

55 25.1 20.1 30.1

61 23.1 18.9 28.3



Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

20000

15000

10000

5000

0

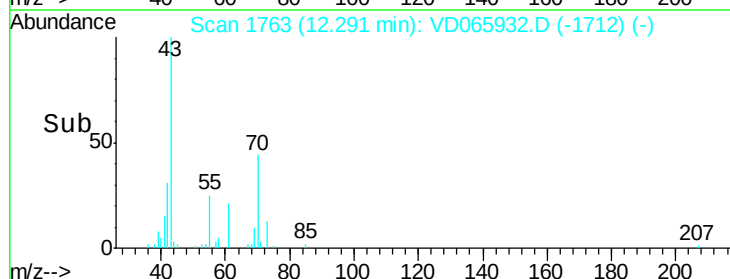
Time-->

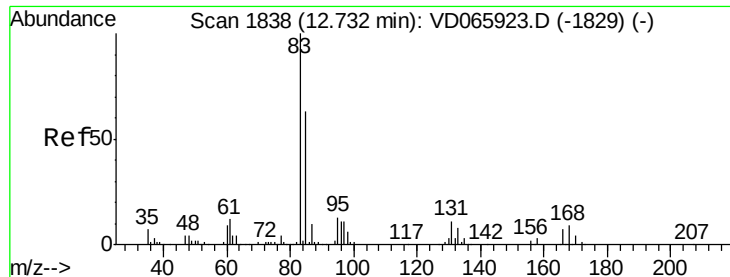
12.20

12.25

12.30

12.35





#75

1,1,2,2-Tetrachloroethane

Concen: 5.016 ug/l

RT: 12.73 min Scan# 1838

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2020

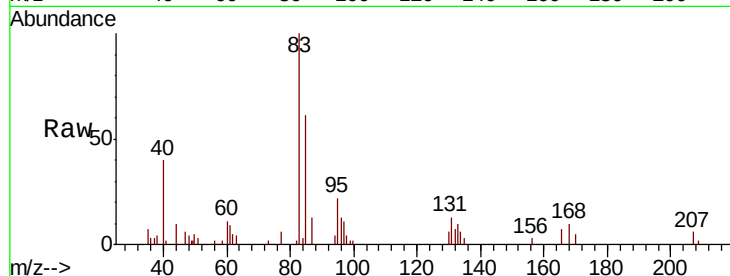
Tot Ion: 83 Resp: 16385

Ion Ratio Lower Upper

83 100

131 13.5 5.6 16.8

85 61.3 32.6 98.0



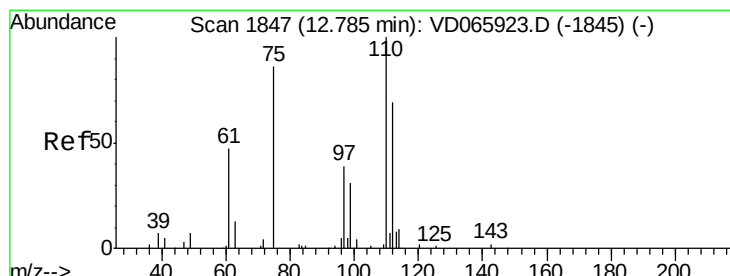
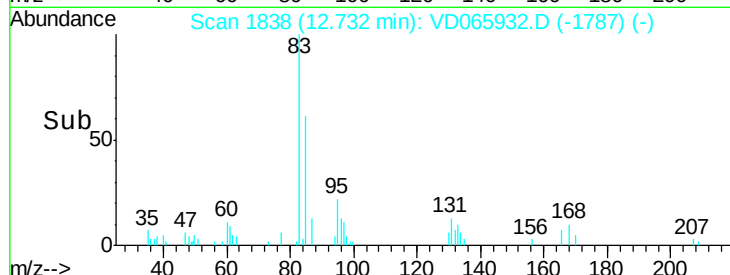
Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 130.80 (130.50 to 131.50): VDC

Ion 84.90 (84.60 to 85.60): VDC

12.73

Time--> 12.65 12.70 12.75 12.80



#76

1,2,3-Trichloropropane

Concen: 8.957 ug/l

RT: 12.78 min Scan# 1847

Delta R.T. -0.00 min

Lab File: VD065932.D

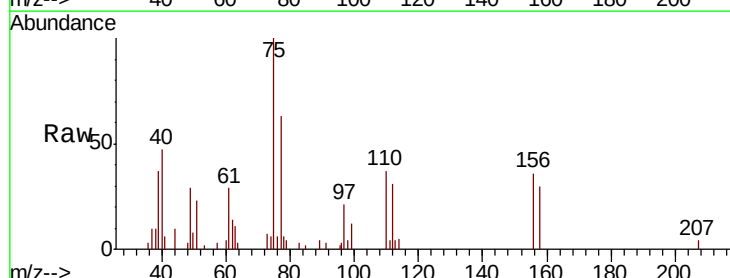
Acq: 07 Jul 2020 20:26

Tgt Ion: 75 Resp: 21180

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0

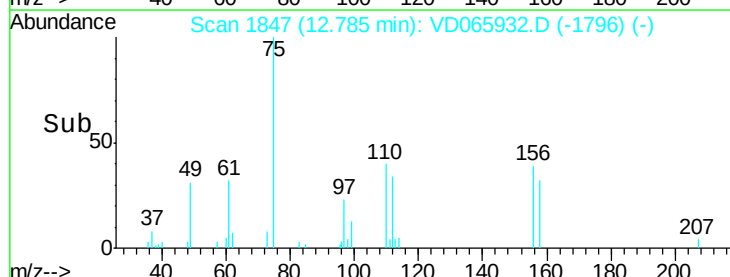


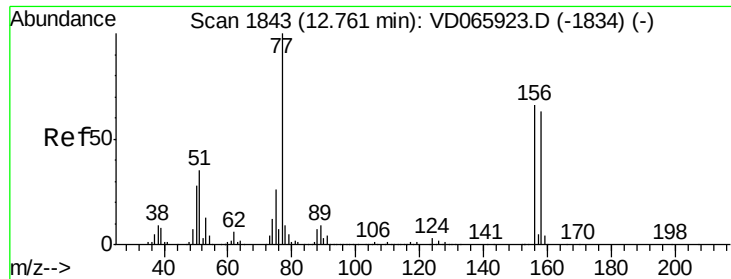
Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC

12.78

Time--> 12.70 12.80





#77

Bromobenzene

Concen: 5.183 ug/l

RT: 12.76 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2020

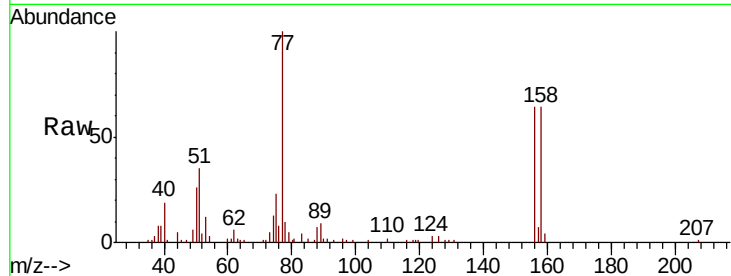
Tot Ion:156 Resp: 24731

Ion Ratio Lower Upper

156 100

77 173.2 85.0 255.0

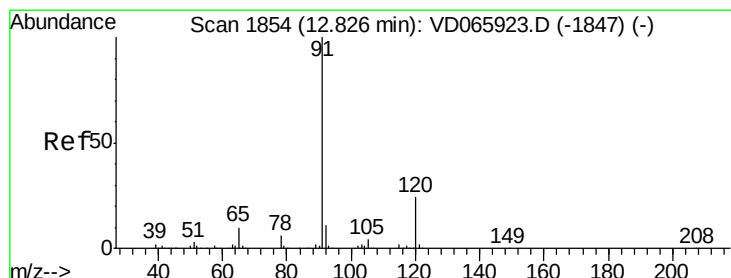
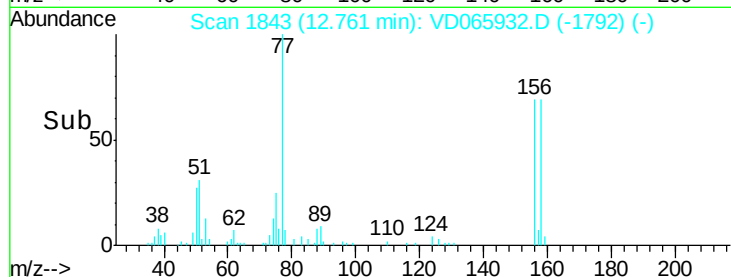
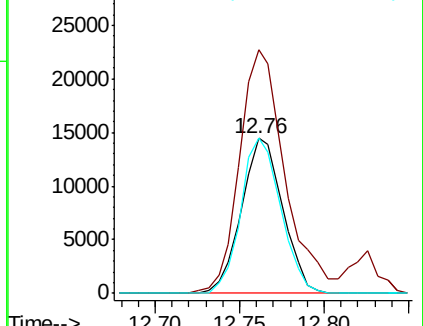
158 96.0 49.0 147.0



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VDC

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 4.944 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. -0.00 min

Lab File: VD065932.D

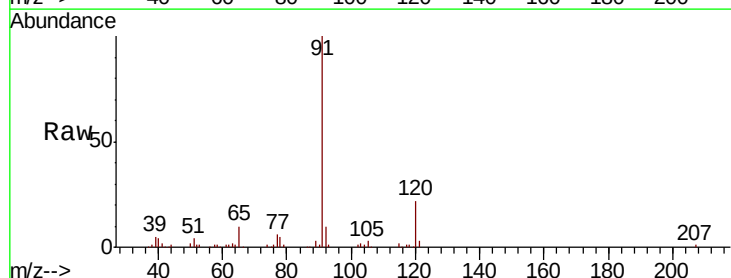
Acq: 07 Jul 2020 20:26

Tgt Ion: 91 Resp: 114031

Ion Ratio Lower Upper

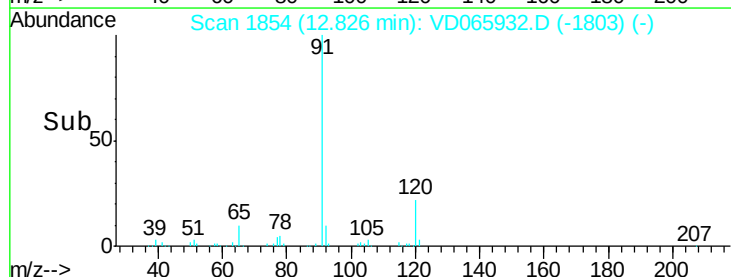
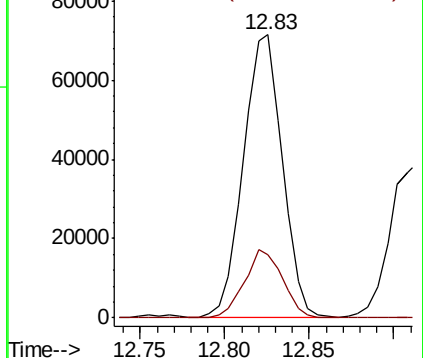
91 100

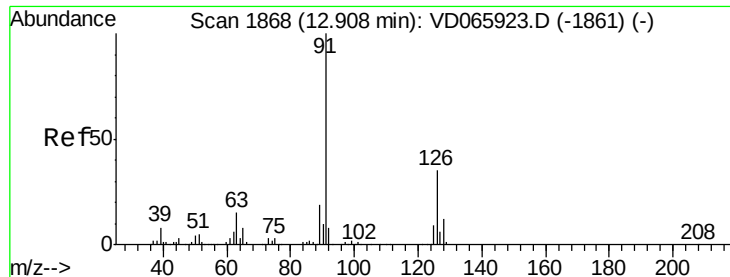
120 23.6 11.8 35.4



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V

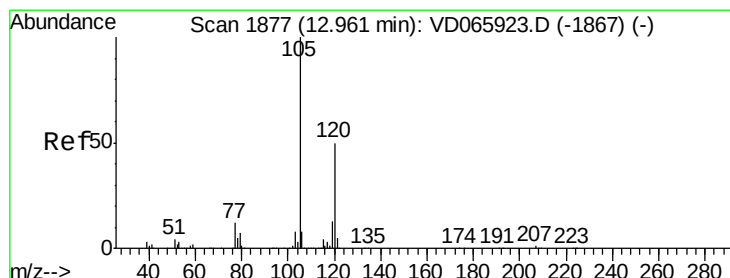
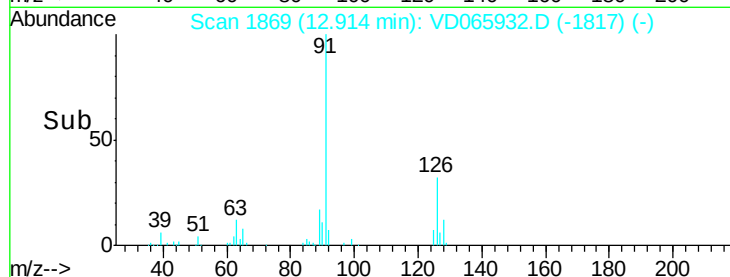
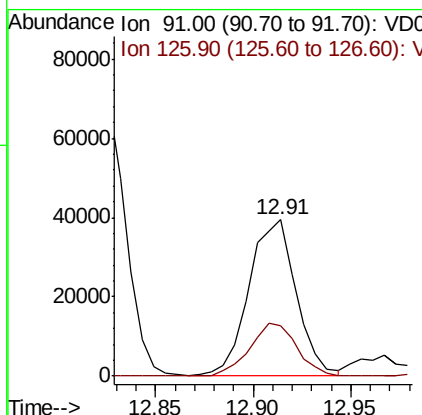
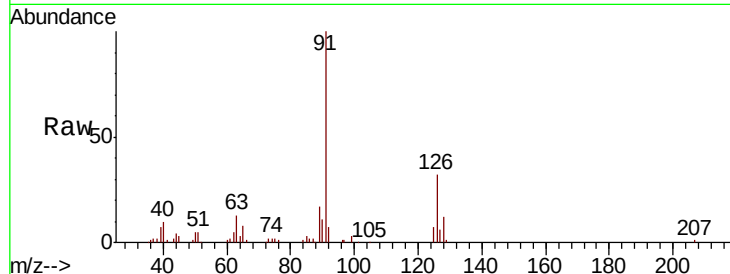




#79
 2-Chlorotoluene
 Concen: 5.029 ug/l
 RT: 12.91 min Scan# 1869
 Delta R.T. 0.01 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

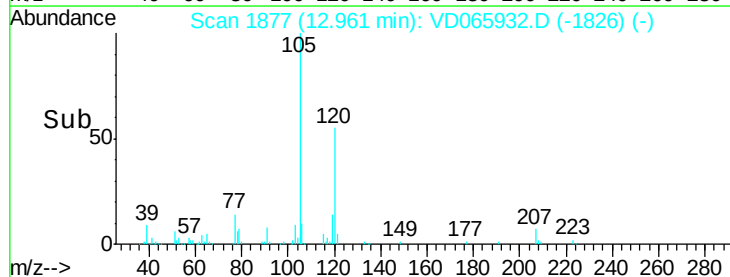
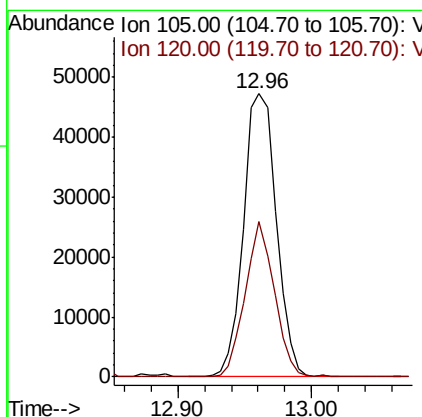
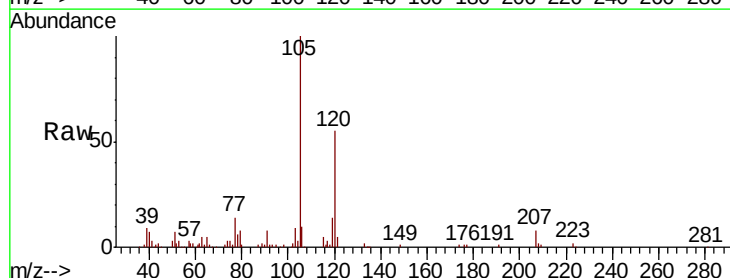
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2020

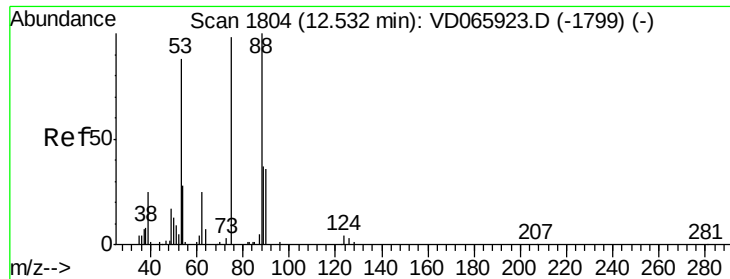
Tot Ion: 91 Resp: 65812
 Ion Ratio Lower Upper
 91 100
 126 33.8 17.6 52.8



#80
 1,3,5-Trimethylbenzene
 Concen: 4.969 ug/l
 RT: 12.96 min Scan# 1877
 Delta R.T. -0.00 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

Tgt Ion: 105 Resp: 79965
 Ion Ratio Lower Upper
 105 100
 120 48.8 25.2 75.6

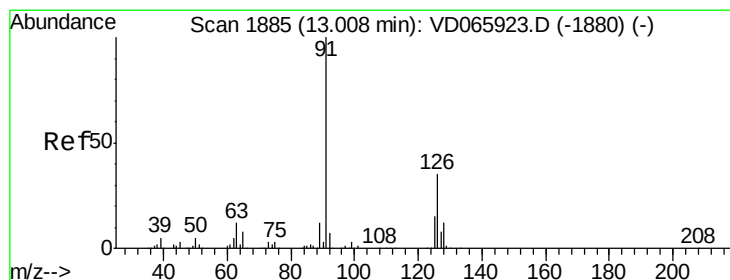
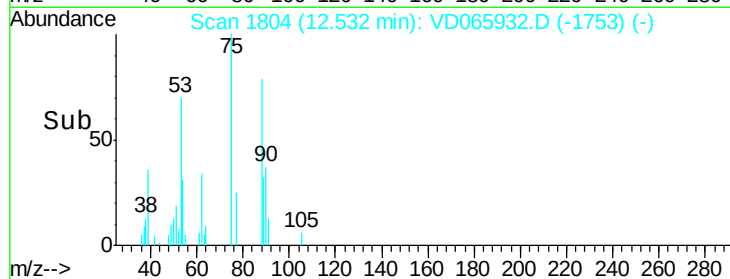
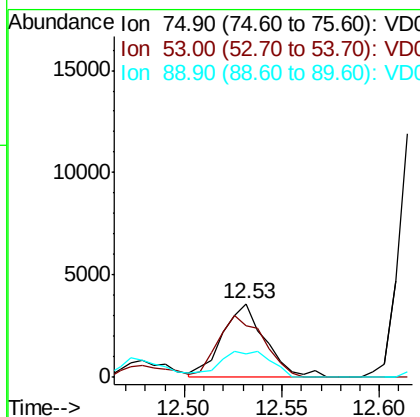
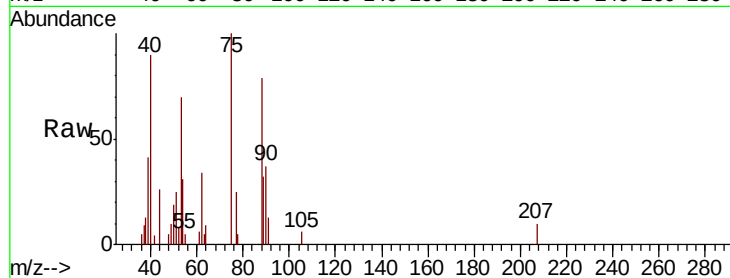




#81
trans-1,4-Dichloro-2-butene
Concen: 5.002 ug/l
RT: 12.53 min Scan# 1804
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

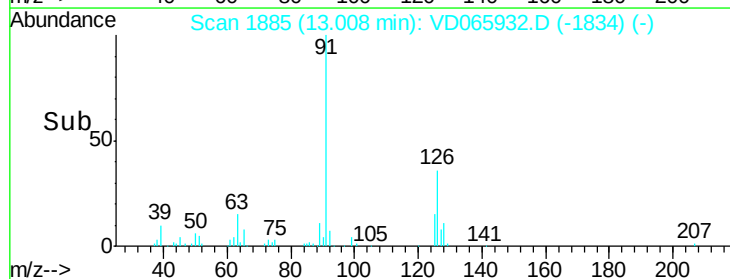
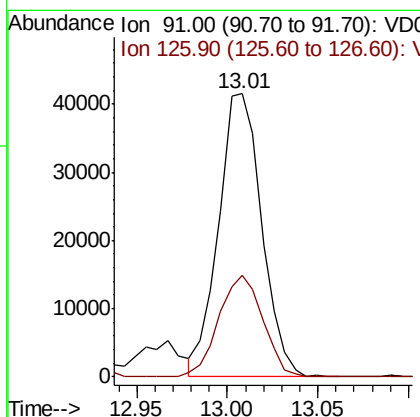
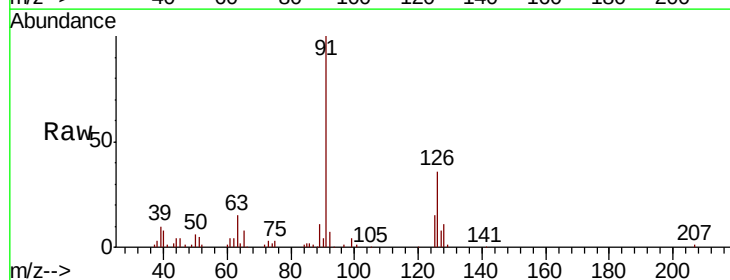
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2020

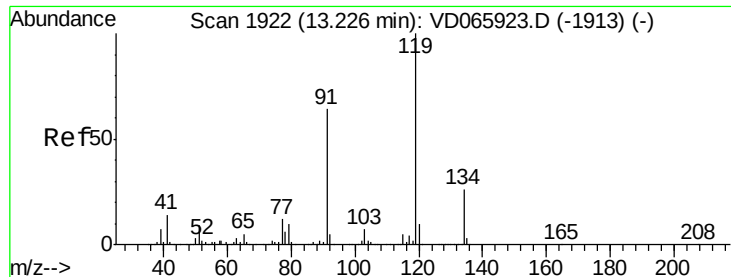
Tot Ion: 75 Resp: 5505
Ion Ratio Lower Upper
75 100
53 88.7 75.8 113.8
89 41.4 37.5 56.3



#82
4-Chlorotoluene
Concen: 4.998 ug/l
RT: 13.01 min Scan# 1885
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Tgt Ion: 91 Resp: 68618
Ion Ratio Lower Upper
91 100
126 36.5 17.3 51.7

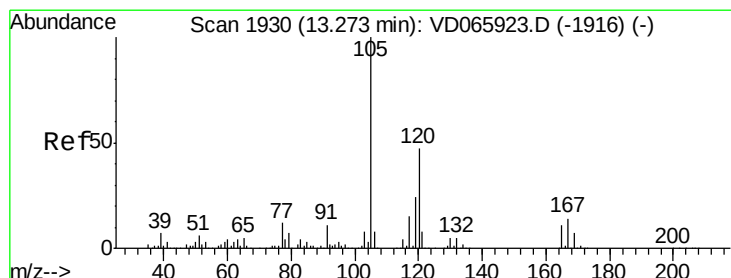
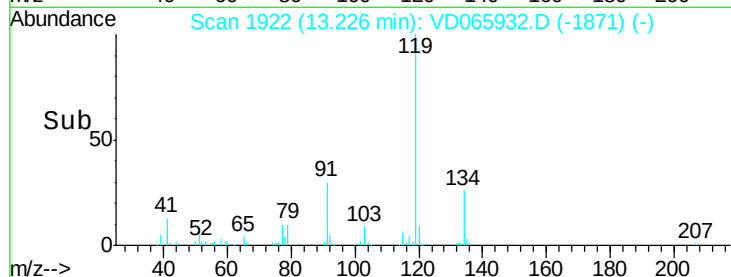
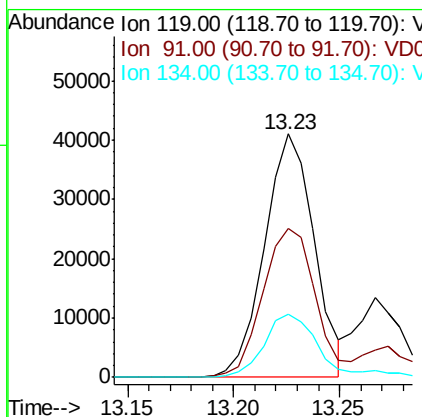
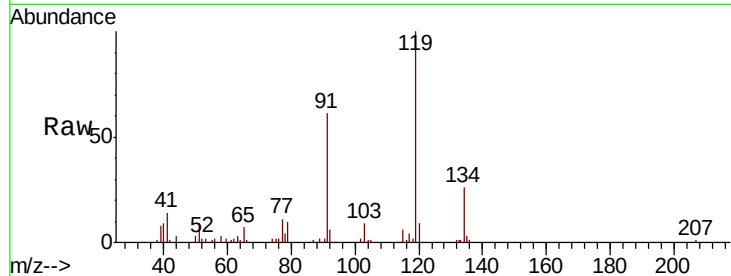




#83
 tert-Butylbenzene
 Concen: 4.891 ug/l
 RT: 13.23 min Scan# 1922
 Delta R.T. -0.00 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

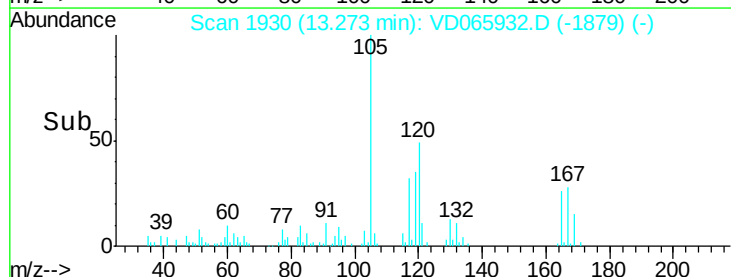
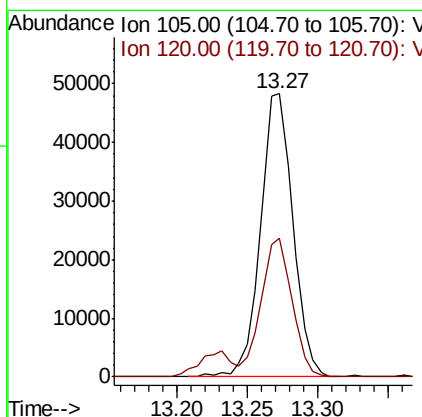
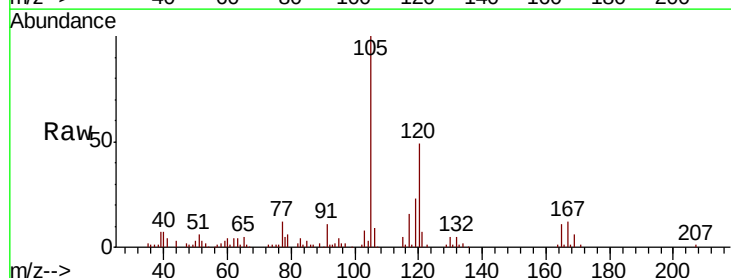
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2020

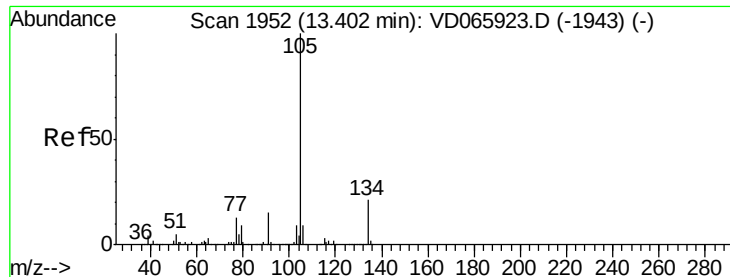
Tot Ion:119 Resp: 67060
 Ion Ratio Lower Upper
 119 100
 91 65.3 32.4 97.2
 134 29.0 14.1 42.4



#84
 1,2,4-Trimethylbenzene
 Concen: 4.887 ug/l
 RT: 13.27 min Scan# 1930
 Delta R.T. -0.00 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

Tgt Ion:105 Resp: 78287
 Ion Ratio Lower Upper
 105 100
 120 46.6 23.2 69.5





#85

sec-Butylbenzene

Concen: 4.868 ug/l

RT: 13.40 min Scan# 1952

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

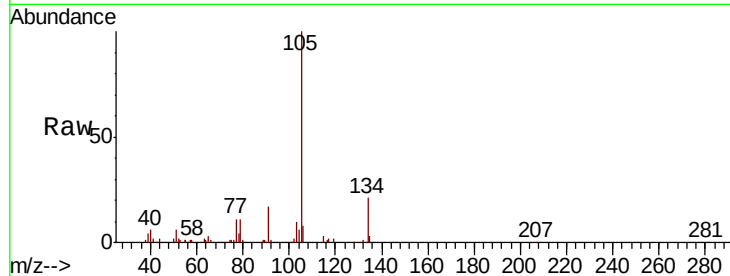
LOQ-SOIL-02-QT3-2020

Tot Ion:105 Resp: 94584

Ion Ratio Lower Upper

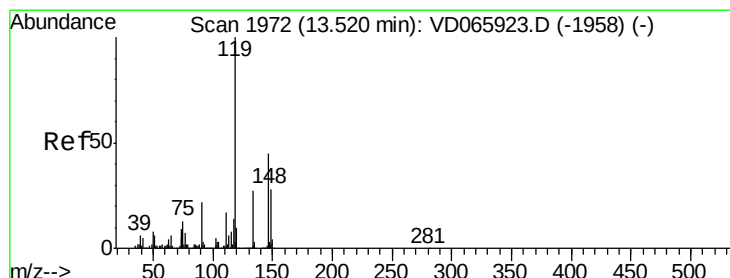
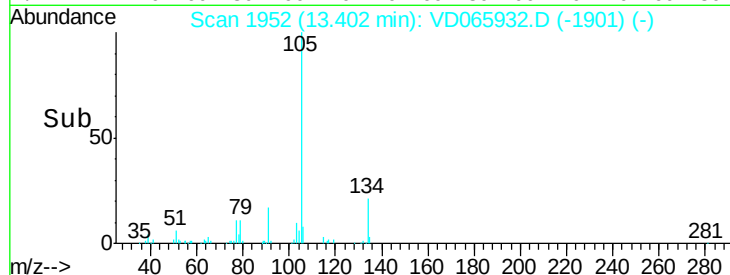
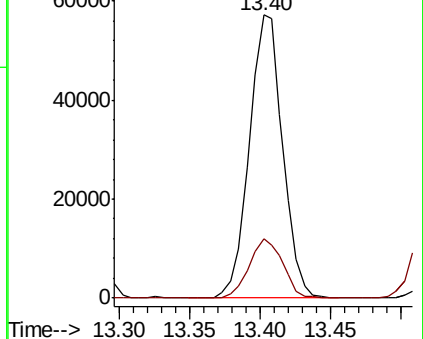
105 100

134 21.2 10.4 31.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 4.677 ug/l

RT: 13.52 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

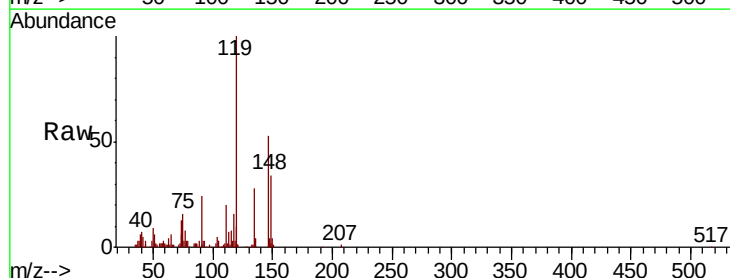
Tgt Ion:119 Resp: 83121

Ion Ratio Lower Upper

119 100

134 27.9 13.4 40.1

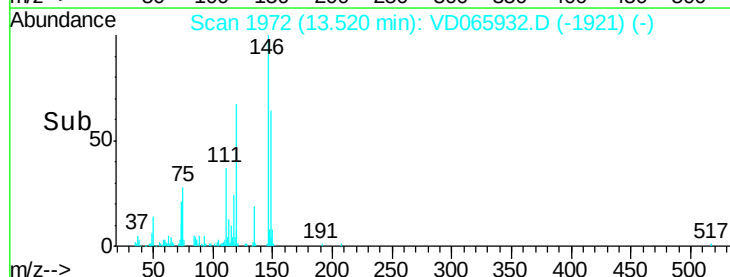
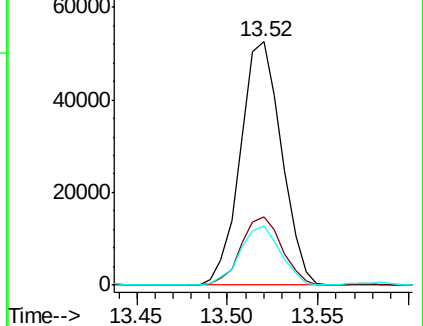
91 24.1 11.3 33.8

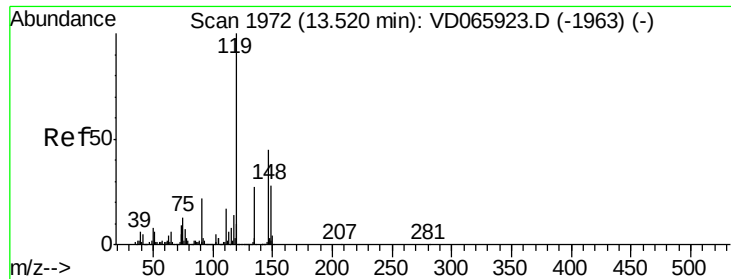


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 5.131 ug/l

RT: 13.52 min Scan# 1972

Delta R.T. -0.00 min

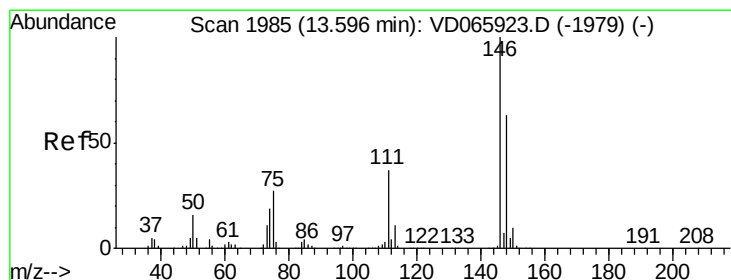
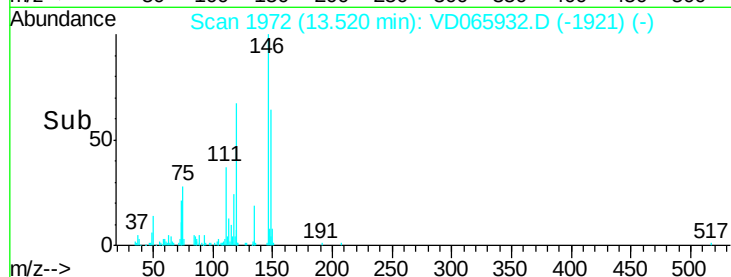
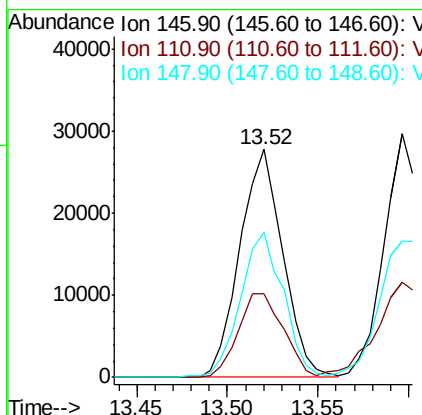
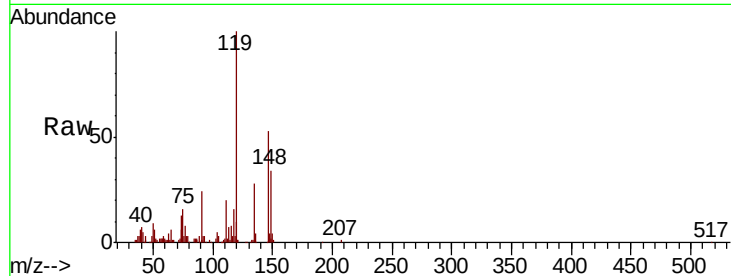
Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2020

Tot Ion:146 Resp: 45819

Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.3	57.8
148	63.2	32.0	96.0



#88

1,4-Dichlorobenzene

Concen: 5.266 ug/l

RT: 13.60 min Scan# 1985

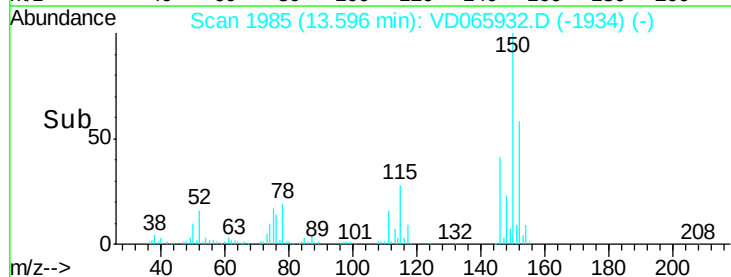
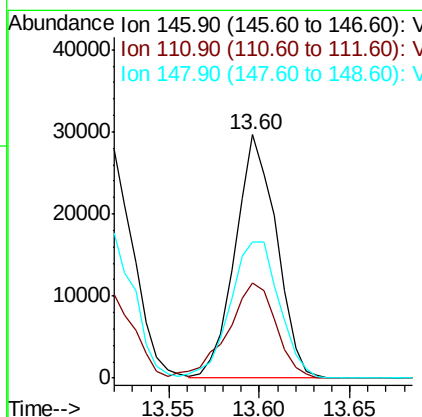
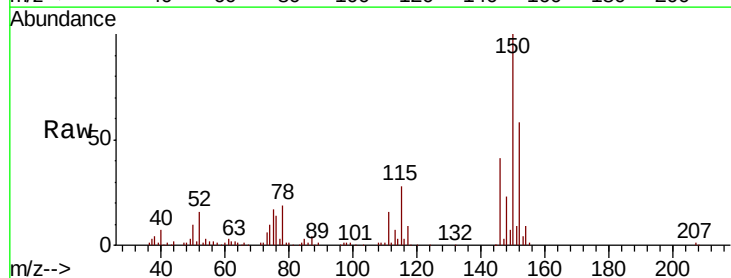
Delta R.T. -0.00 min

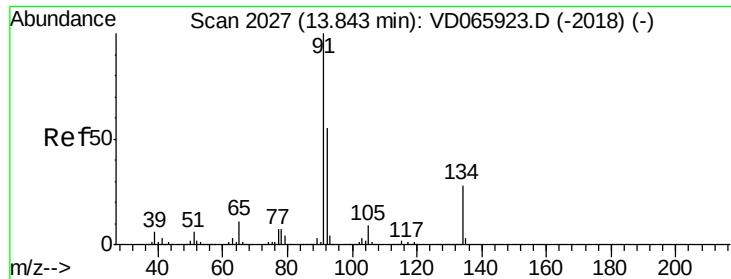
Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Tgt Ion:146 Resp: 46908

Ion	Ratio	Lower	Upper
146	100		
111	45.8	18.9	56.7
148	66.8	32.1	96.3

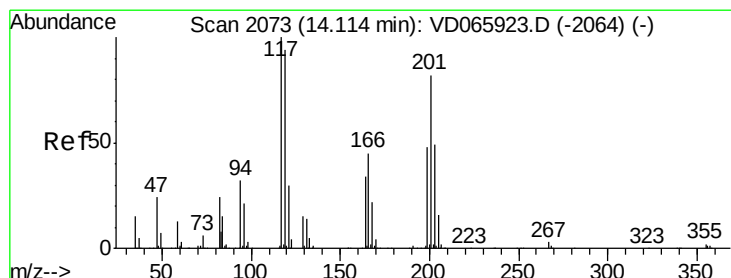
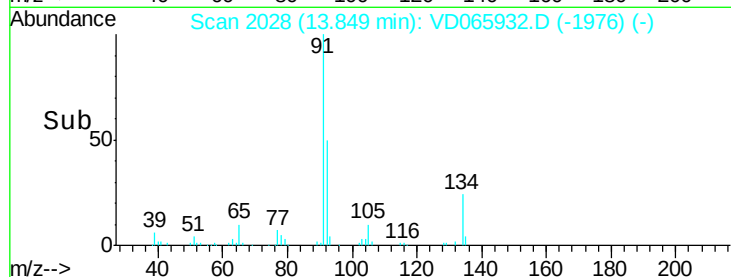
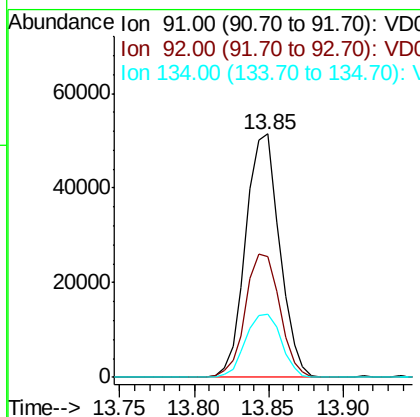
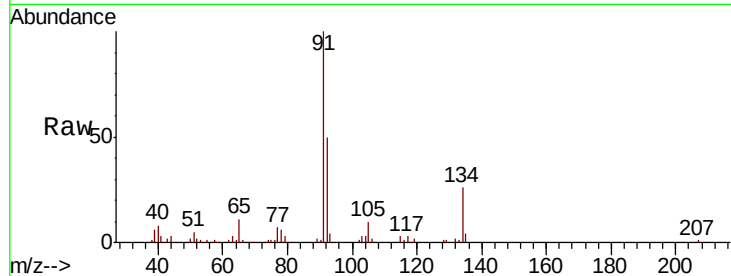




#89
n-Butylbenzene
Concen: 4.846 ug/l
RT: 13.85 min Scan# 2028
Delta R.T. 0.01 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

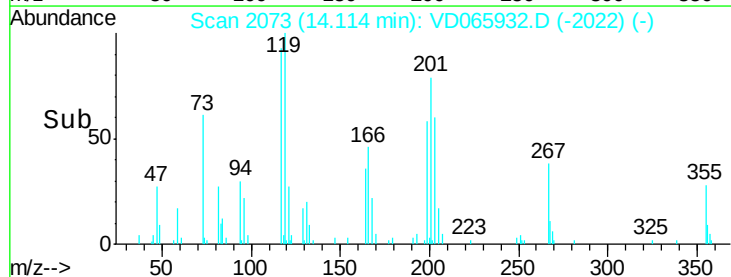
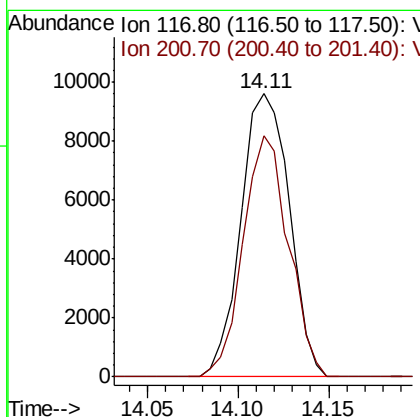
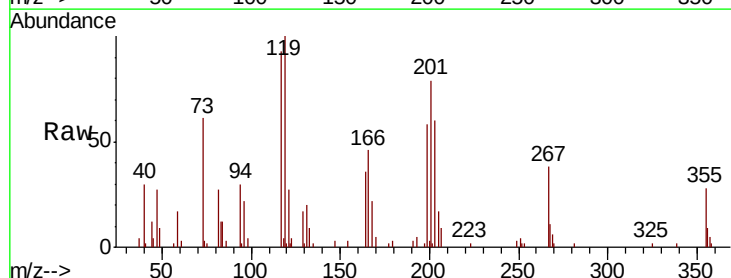
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2020

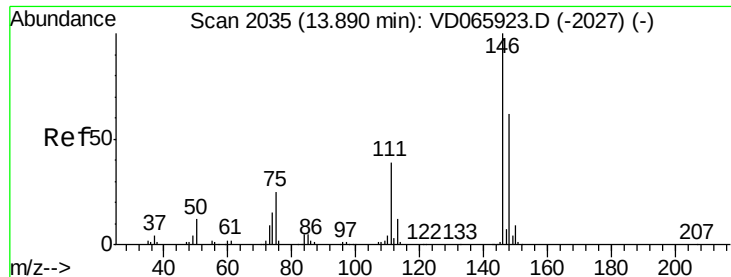
Tot Ion: 91 Resp: 80879
Ion Ratio Lower Upper
91 100
92 51.1 27.2 81.6
134 27.3 13.8 41.3



#90
Hexachloroethane
Concen: 4.958 ug/l
RT: 14.11 min Scan# 2073
Delta R.T. -0.00 min
Lab File: VD065932.D
Acq: 07 Jul 2020 20:26

Tgt Ion: 117 Resp: 17768
Ion Ratio Lower Upper
117 100
201 80.2 40.0 120.0

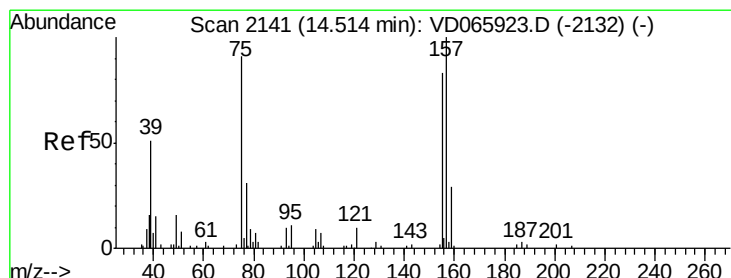
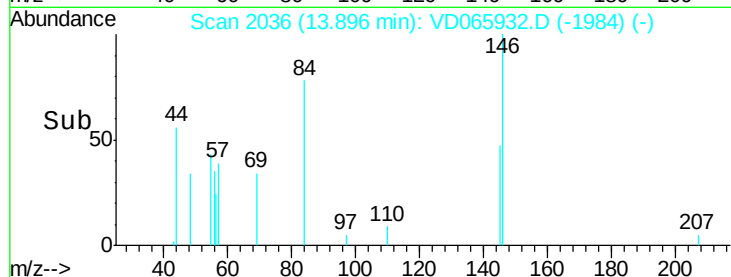
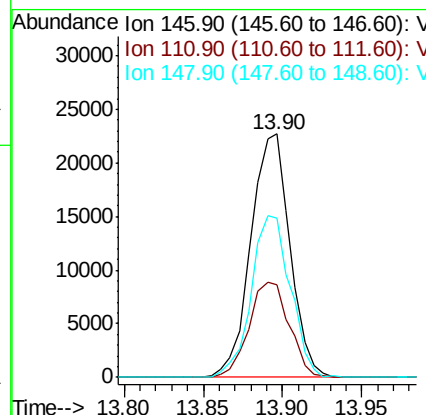
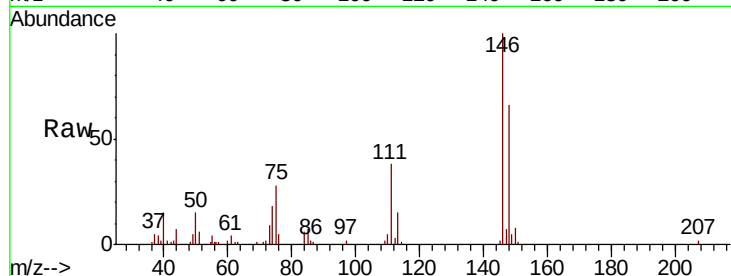




#91
 1,2-Dichlorobenzene
 Concen: 5.003 ug/l
 RT: 13.90 min Scan# 2036
 Delta R.T. 0.01 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

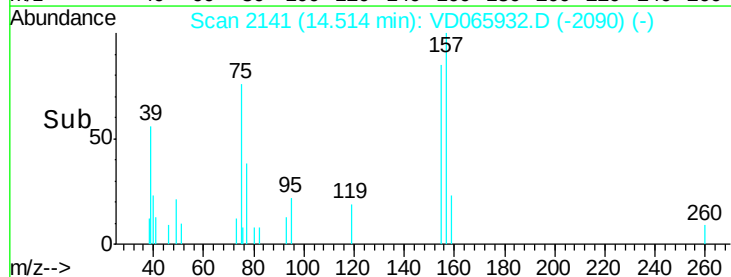
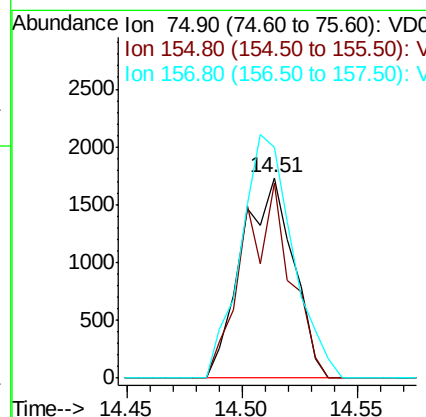
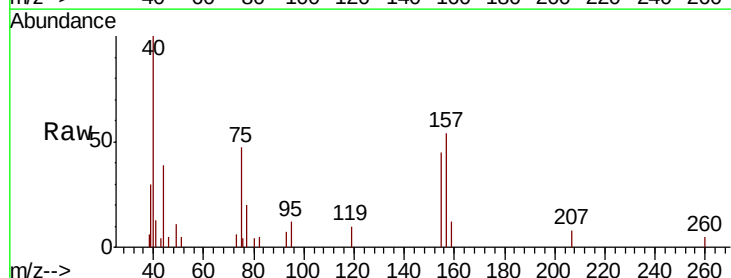
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2020

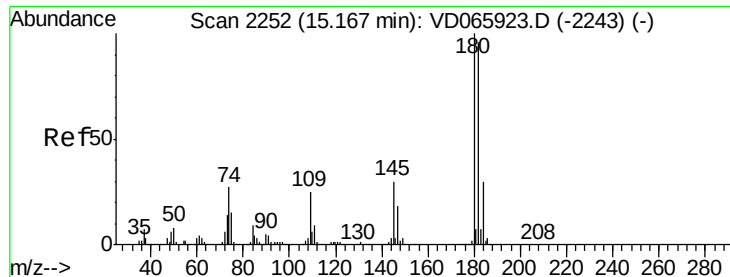
Tot Ion:146 Resp: 39044
 Ion Ratio Lower Upper
 146 100
 111 40.1 19.7 59.0
 148 66.1 32.5 97.5



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.940 ug/l
 RT: 14.51 min Scan# 2141
 Delta R.T. -0.00 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

Tgt Ion: 75 Resp: 2698
 Ion Ratio Lower Upper
 75 100
 155 89.5 45.3 135.8
 157 122.2 56.9 170.6

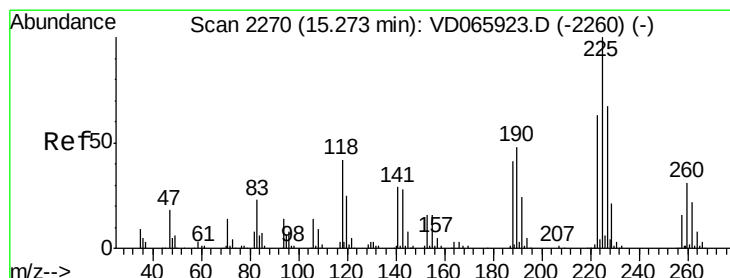
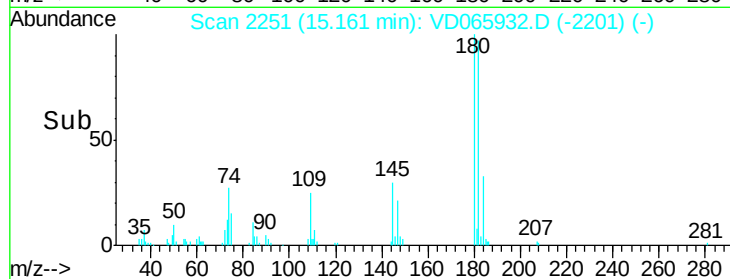
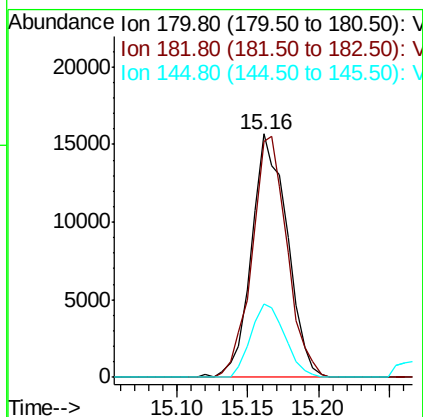
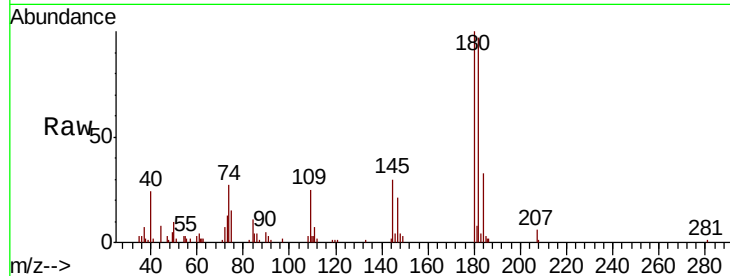




#93
 1,2,4-Trichlorobenzene
 Concen: 4.989 ug/l
 RT: 15.16 min Scan# 2251
 Delta R.T. -0.01 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

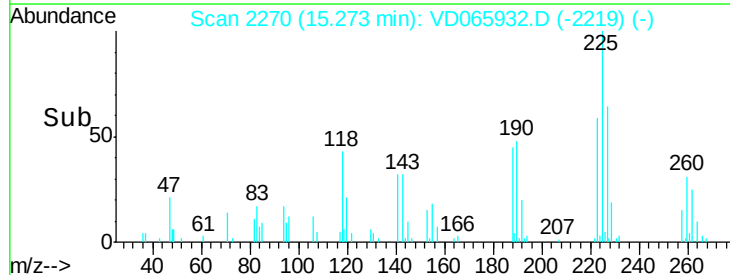
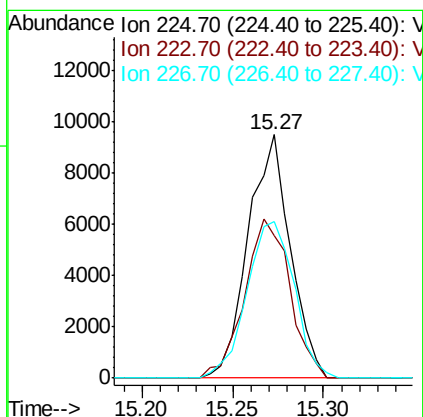
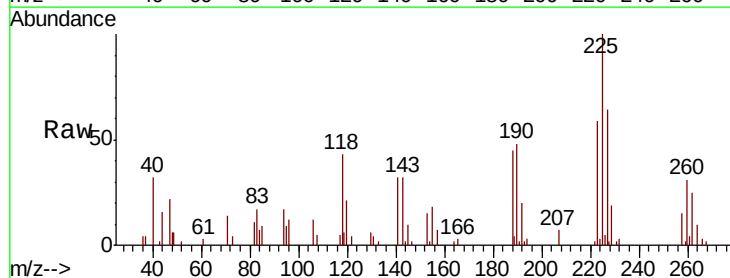
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2020

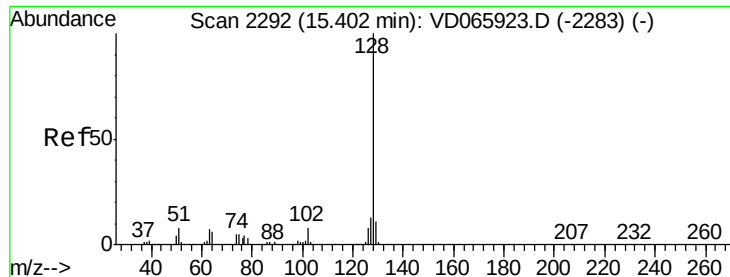
Tot Ion:180 Resp: 27751
 Ion Ratio Lower Upper
 180 100
 182 97.6 48.5 145.6
 145 28.8 15.0 45.1



#94
 Hexachlorobutadiene
 Concen: 4.565 ug/l
 RT: 15.27 min Scan# 2270
 Delta R.T. -0.00 min
 Lab File: VD065932.D
 Acq: 07 Jul 2020 20:26

Tgt Ion:225 Resp: 15360
 Ion Ratio Lower Upper
 225 100
 223 69.9 31.1 93.2
 227 72.1 31.6 95.0





#95

Naphthalene

Concen: 4.515 ug/l

RT: 15.40 min Scan# 2292

Delta R.T. -0.00 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2020

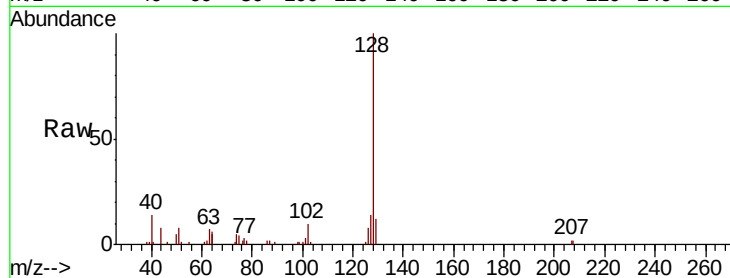
Tot Ion:128 Resp: 42114

Ion Ratio Lower Upper

128 100

127 13.8 10.8 16.2

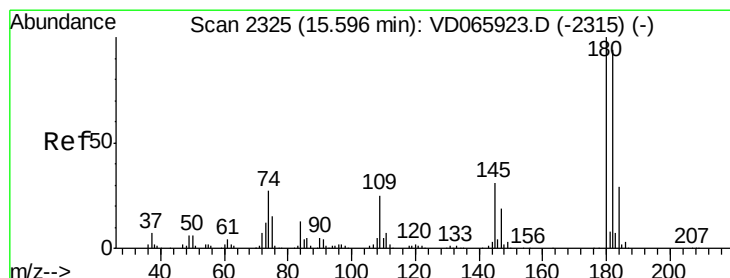
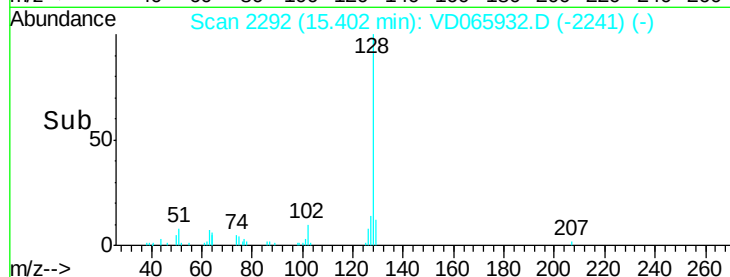
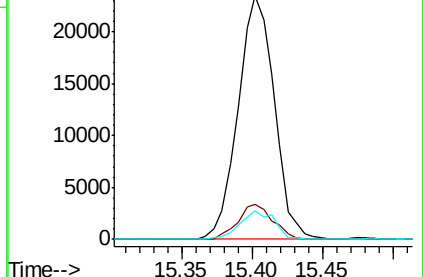
129 11.4 8.9 13.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 4.743 ug/l

RT: 15.60 min Scan# 2326

Delta R.T. 0.01 min

Lab File: VD065932.D

Acq: 07 Jul 2020 20:26

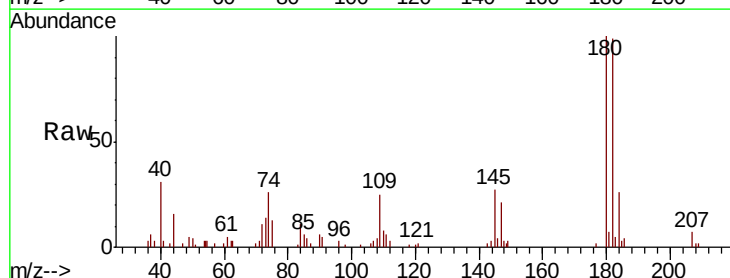
Tgt Ion:180 Resp: 22754

Ion Ratio Lower Upper

180 100

182 103.8 47.6 142.8

145 30.0 16.1 48.2



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

