

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD100419\
 Data File : VD063889.D
 Acq On : 04 Oct 2019 17:11
 Operator : VA/SY
 Sample : K5111-01 4PPB LOD
 Misc : 5.00g/5.00mL/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

Quant Time: Oct 05 02:19:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100219S.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 04 01:55:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	184950	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	305193	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	289925	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	146674	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	92716	51.49	ug/l	0.00
Spiked Amount			Recovery	=	102.98%	
35) Dibromofluoromethane	7.91	113	90804	48.69	ug/l	0.00
Spiked Amount			Recovery	=	97.38%	
50) Toluene-d8	10.34	98	376122	49.68	ug/l	0.00
Spiked Amount			Recovery	=	99.36%	
62) 4-Bromofluorobenzene	12.63	95	121848	46.32	ug/l	0.00
Spiked Amount			Recovery	=	92.64%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	5889	4.490	ug/l #	48
3) Chloromethane	2.21	50	17995	4.480	ug/l	96
4) Vinyl Chloride	2.35	62	17929	4.229	ug/l	100
5) Bromomethane	2.77	94	11697	4.292	ug/l	88
6) Chloroethane	2.93	64	12609	4.498	ug/l	93
7) Trichlorofluoromethane	3.27	101	25850	4.612	ug/l	86
8) Diethyl Ether	3.70	74	3906	4.342	ug/l	52
9) 1,1,2-Trichlorotrifluoroet	4.09	101	7159	4.614	ug/l #	91
10) Methyl Iodide	4.29	142	8436	3.946	ug/l	94
11) Tert butyl alcohol	5.24	59	1558	12.199	ug/l #	71
12) 1,1-Dichloroethene	4.07	96	7336	4.733	ug/l #	79
13) Acrolein	3.92	56	3631	22.578	ug/l	87
14) Allyl chloride	4.71	41	10355	4.018	ug/l #	92
15) Acrylonitrile	5.44	53	8146	20.538	ug/l #	79
16) Acetone	4.17	43	10280	21.928	ug/l #	82
17) Carbon Disulfide	4.39	76	22596	4.010	ug/l #	81
18) Methyl Acetate	4.73	43	4539	4.950	ug/l #	87
19) Methyl tert-butyl Ether	5.47	73	16854	4.199	ug/l #	90
20) Methylene Chloride	4.96	84	17727	7.368	ug/l #	83
21) trans-1,2-Dichloroethene	5.47	96	8748	4.534	ug/l #	86
22) Diisopropyl ether	6.37	45	23671	4.498	ug/l #	89
23) Vinyl Acetate	6.31	43	51470	16.439	ug/l #	93
24) 1,1-Dichloroethane	6.27	63	15270	4.710	ug/l	98
25) 2-Butanone	7.23	43	12641	22.753	ug/l #	87
26) 2,2-Dichloropropane	7.21	77	13690	4.668	ug/l	100
27) cis-1,2-Dichloroethene	7.21	96	9291	4.254	ug/l	98
28) Bromochloromethane	7.56	49	5849	4.815	ug/l #	91
29) Tetrahydrofuran	7.57	42	6744	20.797	ug/l #	92
30) Chloroform	7.71	83	15382	4.369	ug/l	92
31) Cyclohexane	7.99	56	16933	5.570	ug/l #	78
32) 1,1,1-Trichloroethane	7.91	97	12697	4.204	ug/l	92
36) 1,1-Dichloropropene	8.11	75	12869	4.612	ug/l	96
37) Ethyl Acetate	7.29	43	5810	4.588	ug/l #	90
38) Carbon Tetrachloride	8.09	117	11528	4.088	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.35	83	14227	4.147	ug/l	92
40) Benzene	8.36	78	33061	4.134	ug/l	96
41) Methacrylonitrile	7.53	41	1772	2.739	ug/l #	59
42) 1,2-Dichloroethane	8.43	62	10610	4.587	ug/l	100
43) Isopropyl Acetate	8.46	43	9870	4.218	ug/l #	58
44) Trichloroethene	9.11	130	9927	4.305	ug/l	94
45) 1,2-Dichloropropane	9.38	63	9173	4.687	ug/l	96
46) Dibromomethane	9.47	93	4958	4.448	ug/l	99
47) Bromodichloromethane	9.67	83	11313	3.942	ug/l #	81
48) Methyl methacrylate	9.46	41	4389	3.914	ug/l #	88
49) 1,4-Dioxane	9.47	88	1298	85.307	ug/l #	76
51) 4-Methyl-2-Pentanone	10.23	43	25460	20.978	ug/l	94
52) Toluene	10.40	92	21285	3.877	ug/l	92
53) t-1,3-Dichloropropene	10.62	75	10665	3.808	ug/l #	78
54) cis-1,3-Dichloropropene	10.09	75	11427	3.545	ug/l #	92
55) 1,1,2-Trichloroethane	10.80	97	6028	3.830	ug/l	93
56) Ethyl methacrylate	10.67	69	7790	3.908	ug/l #	83
57) 1,3-Dichloropropane	10.95	76	10586	3.931	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.94	63	15431	18.012	ug/l	95
59) 2-Hexanone	10.98	43	15452	17.600	ug/l	95
60) Dibromochloromethane	11.14	129	8122	3.964	ug/l	92
61) 1,2-Dibromoethane	11.25	107	6141	4.025	ug/l	95
64) Tetrachloroethene	10.88	164	8206	4.146	ug/l #	80
65) Chlorobenzene	11.67	112	24657	4.235	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.74	131	8365	3.899	ug/l	96
67) Ethyl Benzene	11.74	91	41645	3.967	ug/l	99
68) m/p-Xylenes	11.85	106	30567	7.543	ug/l	96
69) o-Xylene	12.17	106	15601	4.021	ug/l	99
70) Styrene	12.19	104	23615	3.595	ug/l #	89
71) Bromoform	12.36	173	4636	4.026	ug/l #	94
73) Isopropylbenzene	12.48	105	38834	3.938	ug/l	97
74) N-amyl acetate	12.29	43	9573	4.509	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.73	83	6666	3.885	ug/l	97
76) 1,2,3-Trichloropropane	12.79	75	8727	8.884	ug/l #	100
77) Bromobenzene	12.76	156	10815	4.402	ug/l	97
78) n-propylbenzene	12.82	91	45963	3.971	ug/l	96
79) 2-Chlorotoluene	12.91	91	26744	4.191	ug/l	96
80) 1,3,5-Trimethylbenzene	12.96	105	34590	4.205	ug/l	88
81) trans-1,4-Dichloro-2-buten	12.53	75	2304	4.150	ug/l #	76
82) 4-Chlorotoluene	13.00	91	28150	4.158	ug/l	95
83) tert-Butylbenzene	13.22	119	27052	3.695	ug/l	98
84) 1,2,4-Trimethylbenzene	13.27	105	31756	3.745	ug/l	99
85) sec-Butylbenzene	13.40	105	39854	4.031	ug/l	97
86) p-Isopropyltoluene	13.51	119	37001	3.955	ug/l	99
87) 1,3-Dichlorobenzene	13.52	146	19180	3.951	ug/l	93
88) 1,4-Dichlorobenzene	13.60	146	19328	4.036	ug/l	89
89) n-Butylbenzene	13.84	91	35239	4.047	ug/l	98
90) Hexachloroethane	14.11	117	7153	4.251	ug/l	89
91) 1,2-Dichlorobenzene	13.88	146	17870	4.272	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.51	75	1371	4.619	ug/l	98

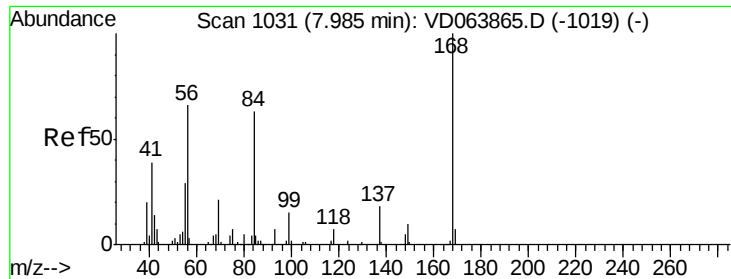
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_D\DATA\VD100419\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	13389	4.148	ug/l	96
94) Hexachlorobutadiene	15.27	225	7659	4.300	ug/l	98
95) Naphthalene	15.40	128	20494	3.778	ug/l	97
96) 1,2,3-Trichlorobenzene	15.60	180	10716	3.848	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

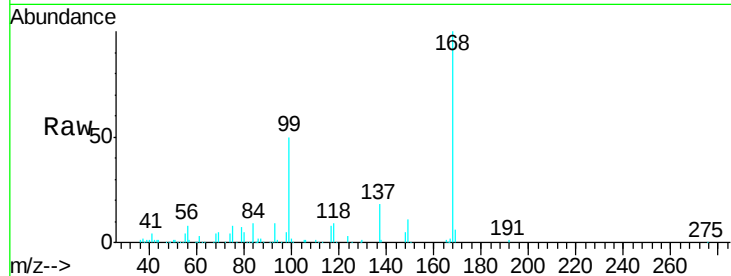
LOD-MDL-SOIL-01-QT4-2019

Tgt Ion:168 Resp: 184950

Ion Ratio Lower Upper

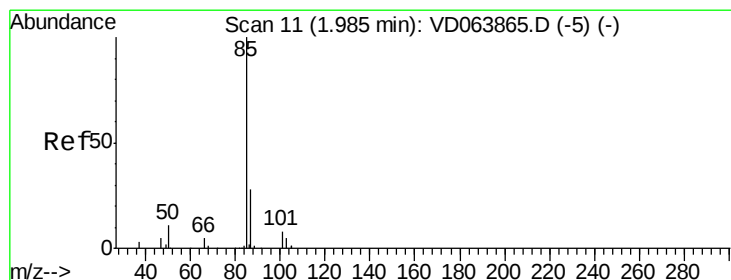
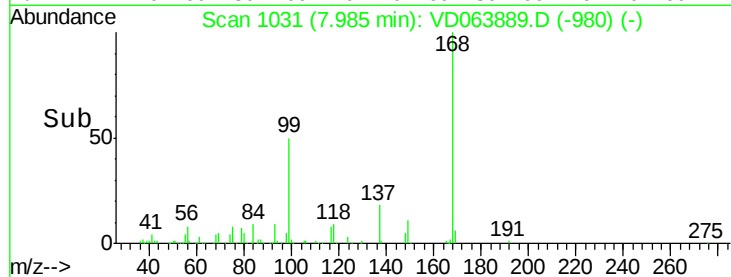
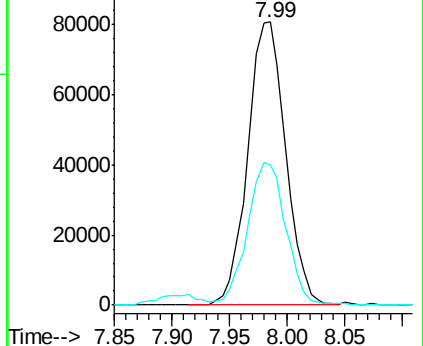
168 100

99 49.1 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 4.490 ug/l

RT: 1.99 min Scan# 11

Delta R.T. -0.00 min

Lab File: VD063889.D

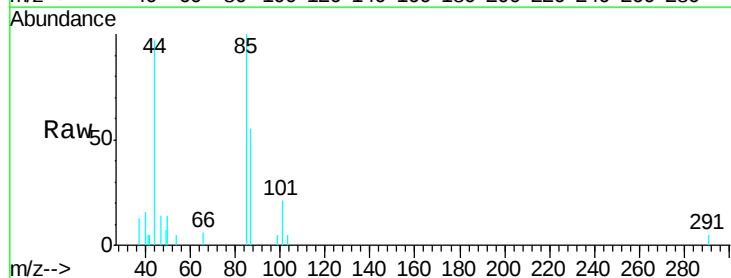
Acq: 04 Oct 2019 17:11

Tgt Ion: 85 Resp: 5889

Ion Ratio Lower Upper

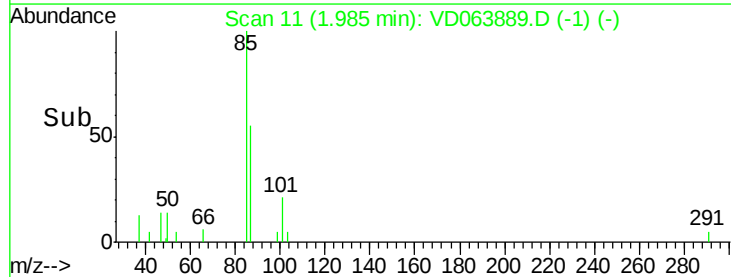
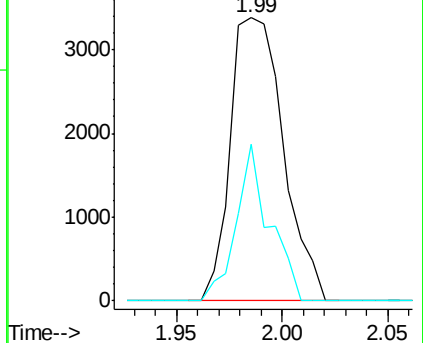
85 100

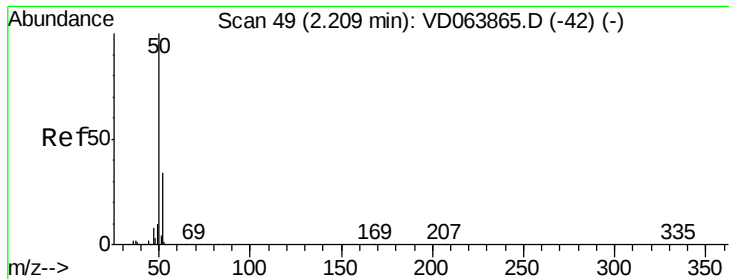
87 55.1 14.0 42.0#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 4.480 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

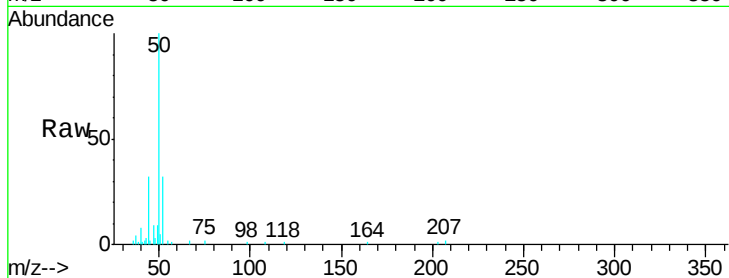
LOD-MDL-SOIL-01-QT4-2019

Tgt Ion: 50 Resp: 17995

Ion Ratio Lower Upper

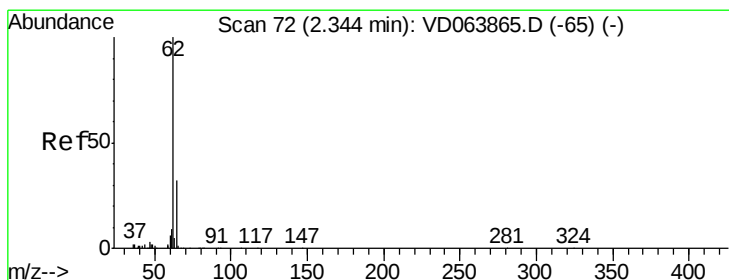
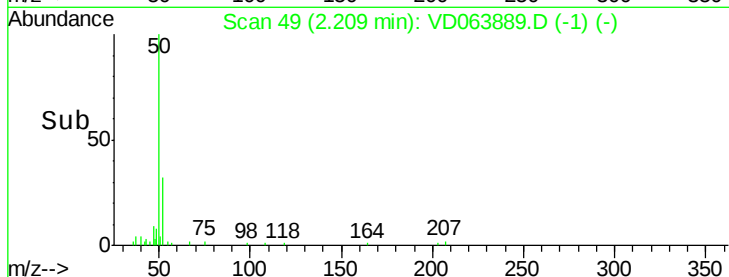
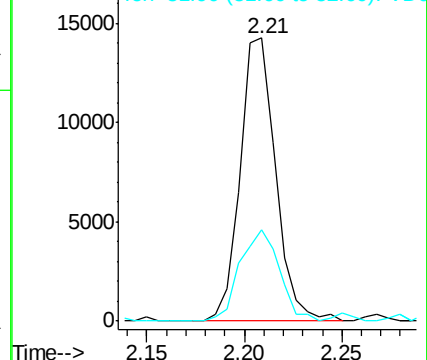
50 100

52 32.4 27.5 41.3



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 4.229 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.01 min

Lab File: VD063889.D

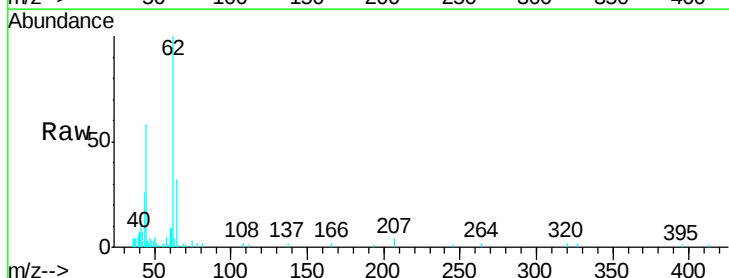
Acq: 04 Oct 2019 17:11

Tgt Ion: 62 Resp: 17929

Ion Ratio Lower Upper

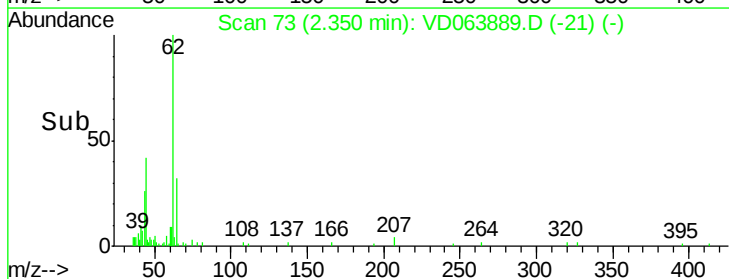
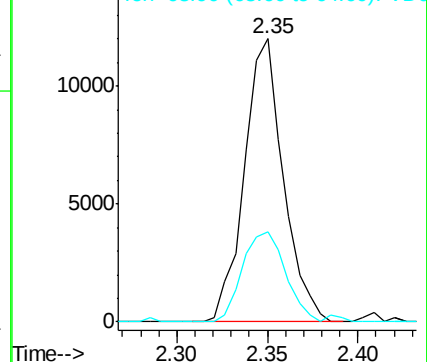
62 100

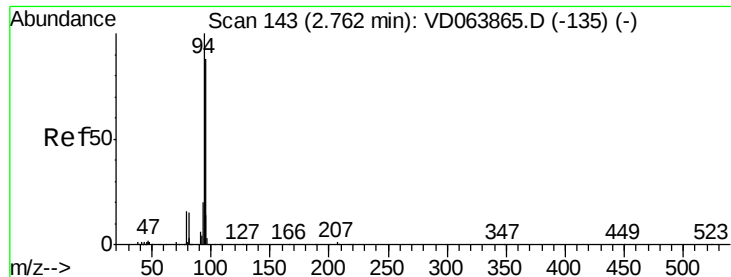
64 31.6 25.4 38.0



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 4.292 ug/l

RT: 2.77 min Scan# 145

Delta R.T. 0.01 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

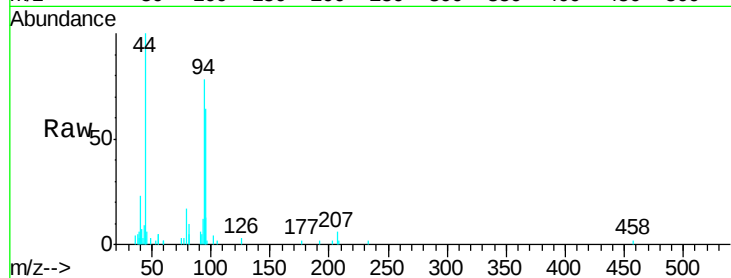
LOD-MDL-SOIL-01-QT4-2019

Tgt Ion: 94 Resp: 11697

Ion Ratio Lower Upper

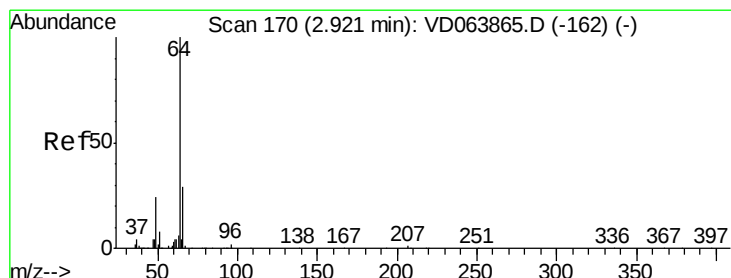
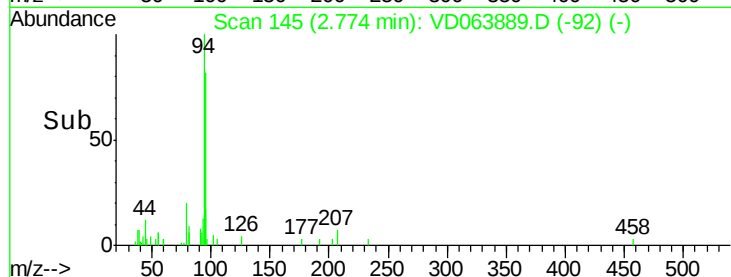
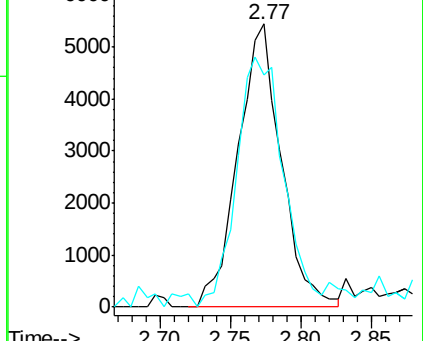
94 100

96 77.7 70.8 106.2



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 4.498 ug/l

RT: 2.93 min Scan# 171

Delta R.T. 0.01 min

Lab File: VD063889.D

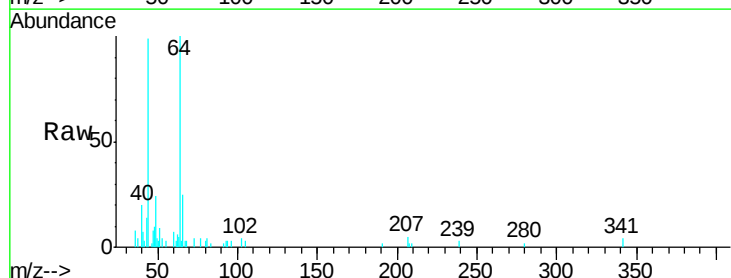
Acq: 04 Oct 2019 17:11

Tgt Ion: 64 Resp: 12609

Ion Ratio Lower Upper

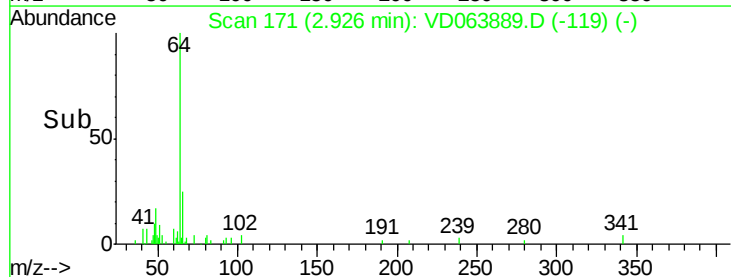
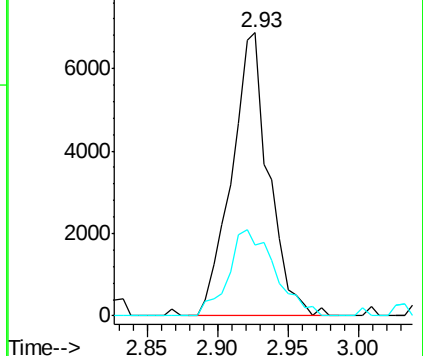
64 100

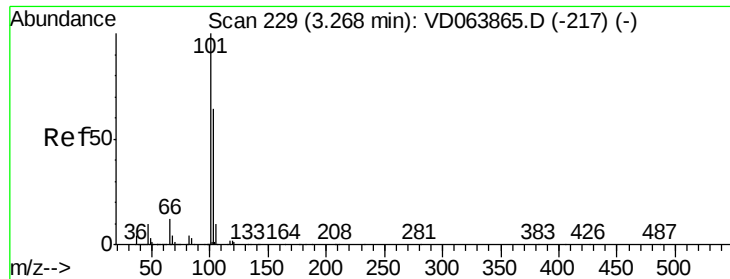
66 25.2 23.0 34.4



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

Trichlorofluoromethane

Concen: 4.612 ug/l

RT: 3.27 min Scan# 229

Delta R.T. -0.00 min

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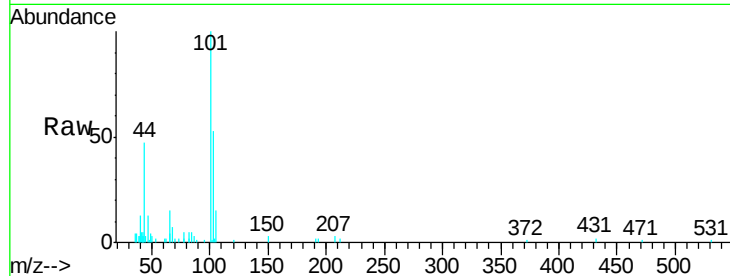
LOD-MDL-SOIL-01-QT4-2019

Tgt Ion: 101 Resp: 25850

Ion Ratio Lower Upper

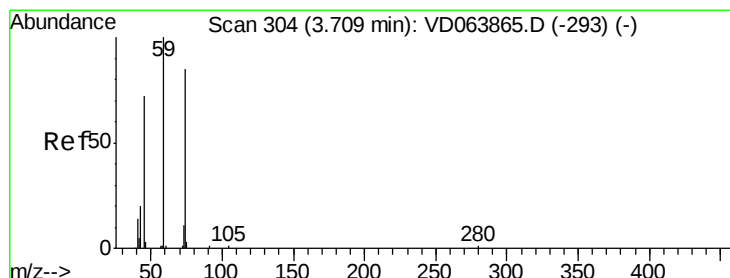
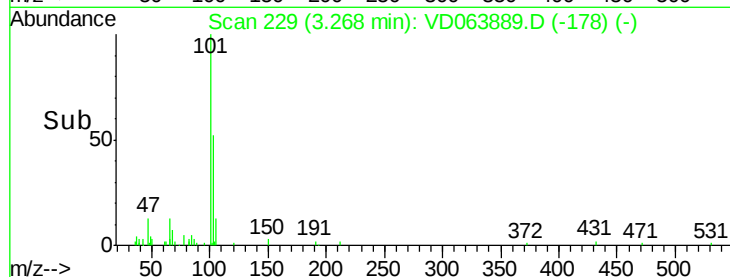
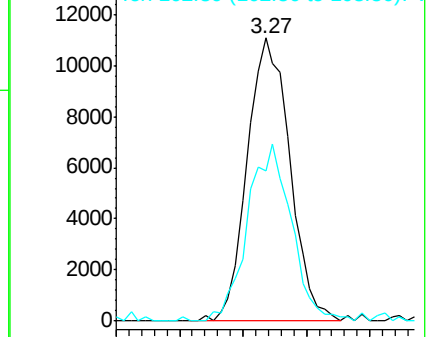
101 100

103 53.0 51.1 76.7



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 4.342 ug/l

RT: 3.70 min Scan# 303

Delta R.T. -0.01 min

Lab File: VD063889.D

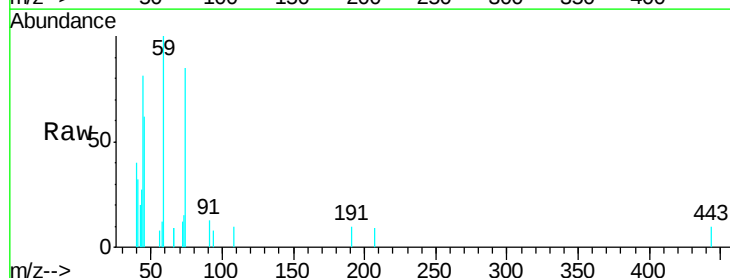
Acq: 04 Oct 2019 17:11

Tgt Ion: 74 Resp: 3906

Ion Ratio Lower Upper

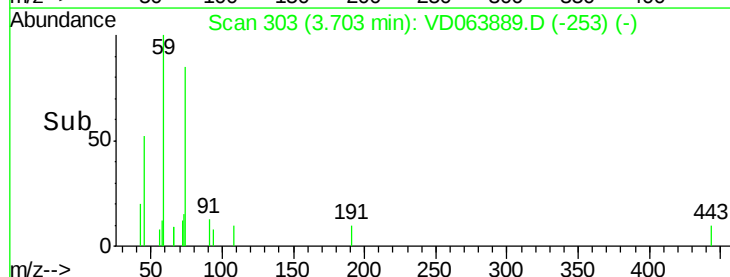
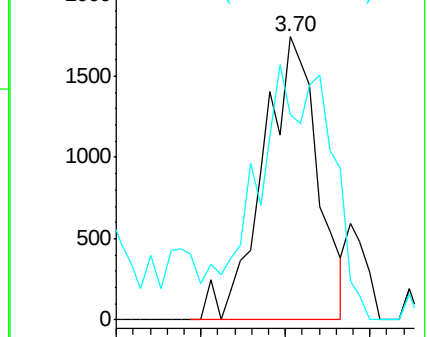
74 100

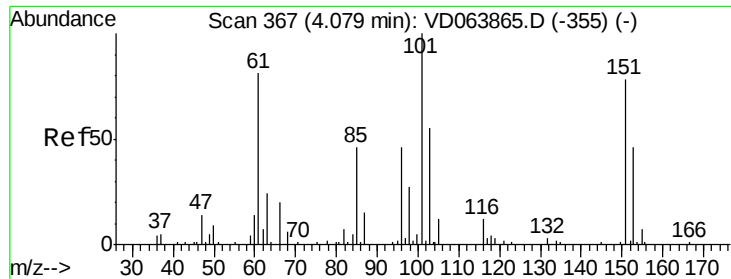
45 49.4 48.1 144.4



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.00 (44.70 to 45.70): VDC





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.614 ug/l

RT: 4.09 min Scan# 368

Delta R.T. 0.01 min

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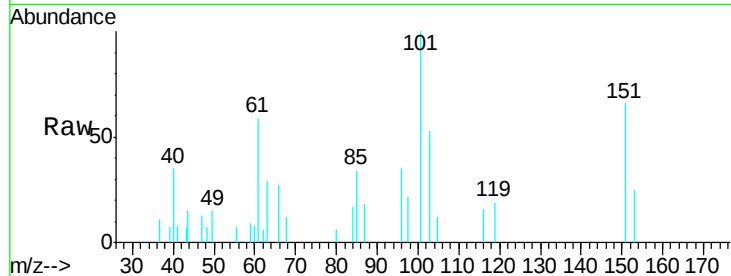
Tgt Ion:101 Resp: 7159

Ion Ratio Lower Upper

101 100

85 30.4 37.5 56.3#

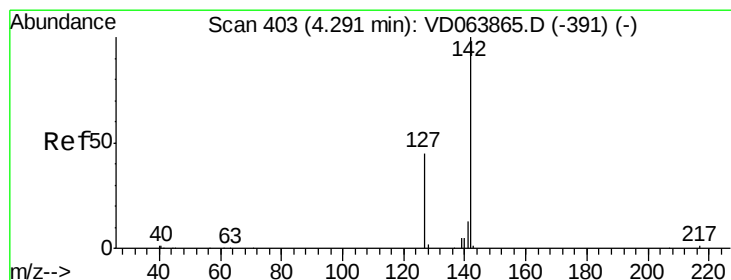
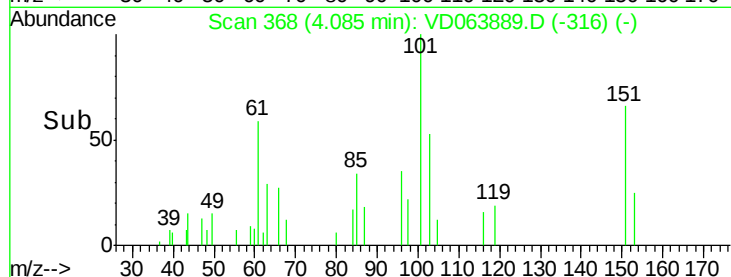
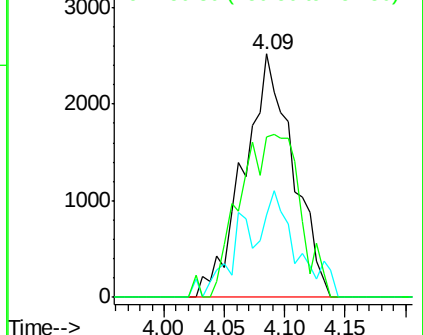
151 81.9 65.5 98.3



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: 3.946 ug/l

RT: 4.29 min Scan# 403

Delta R.T. -0.00 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

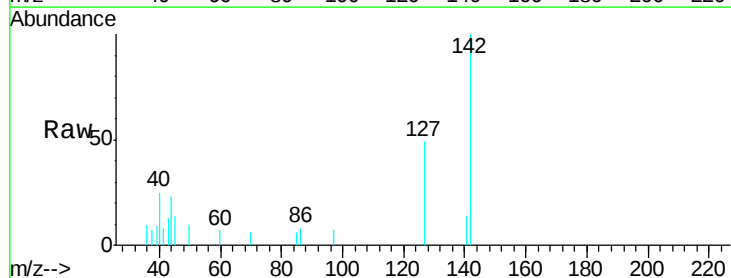
Tgt Ion:142 Resp: 8436

Ion Ratio Lower Upper

142 100

127 48.4 35.3 52.9

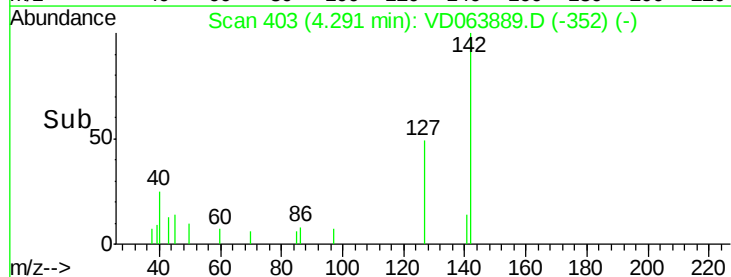
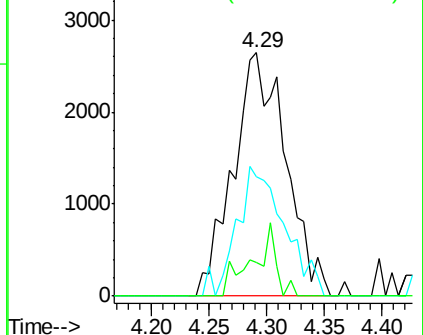
141 13.7 12.2 18.2

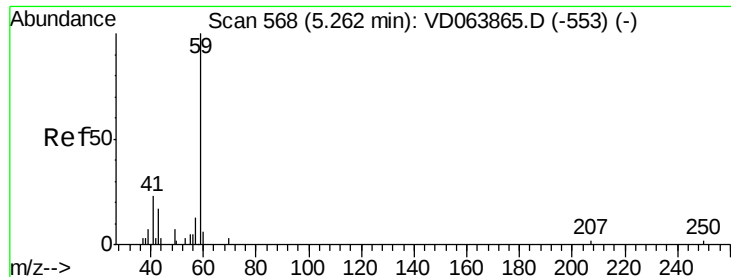


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

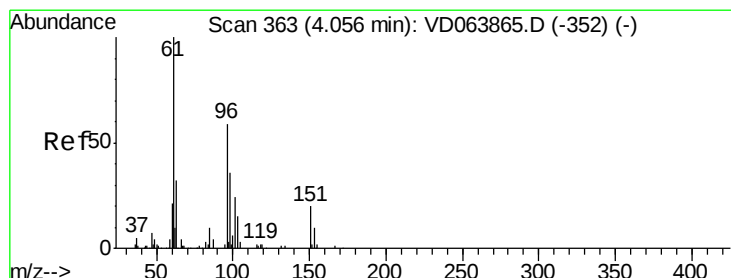
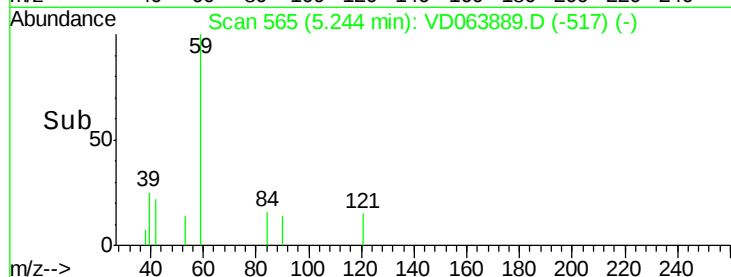
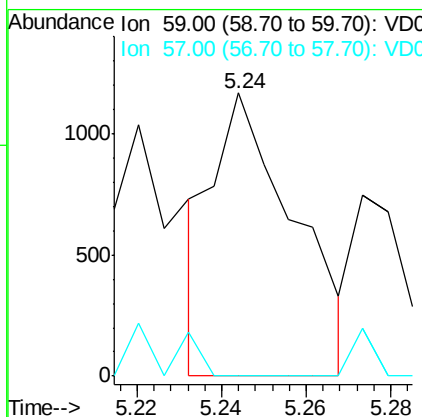
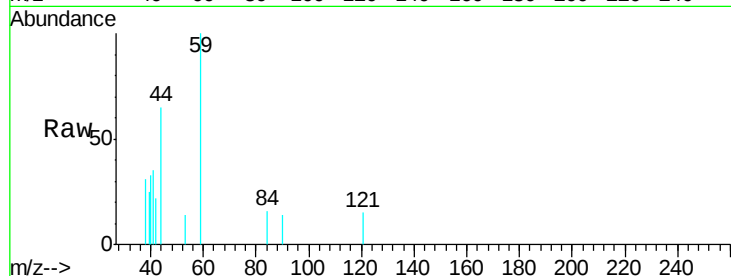




#11
Tert butyl alcohol
Concen: 12.199 ug/l
RT: 5.24 min Scan# 565
Delta R.T. -0.02 min
Lab File: VD063889.D
Acq: 04 Oct 2019 17:11

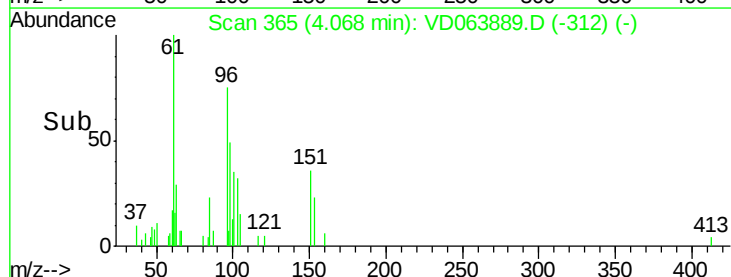
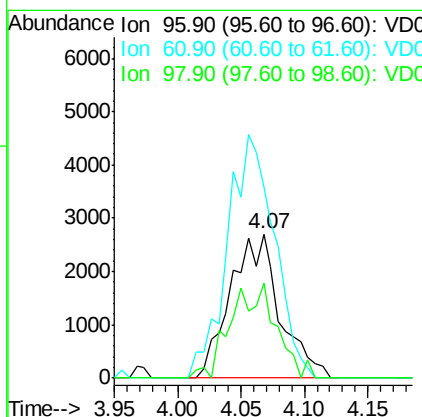
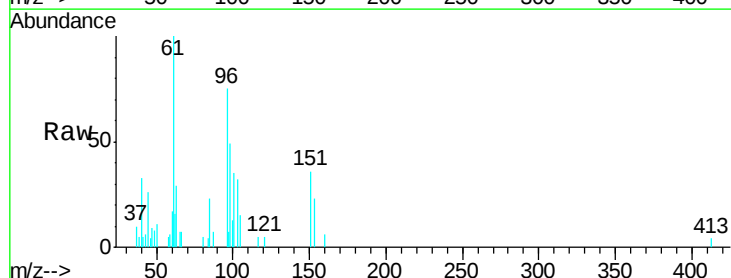
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

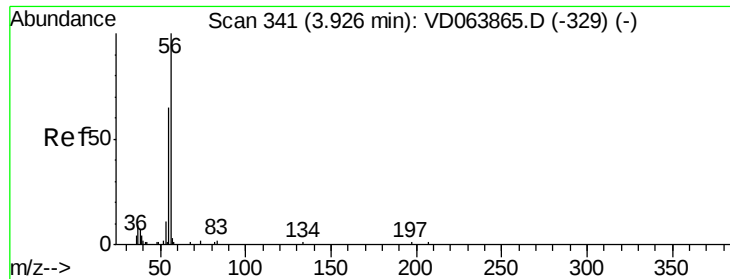
Tgt Ion: 59 Resp: 1558
Ion Ratio Lower Upper
59 100
57 0.0 8.8 13.2#



#12
1,1-Dichloroethene
Concen: 4.733 ug/l
RT: 4.07 min Scan# 365
Delta R.T. 0.01 min
Lab File: VD063889.D
Acq: 04 Oct 2019 17:11

Tgt Ion: 96 Resp: 7336
Ion Ratio Lower Upper
96 100
61 133.2 135.6 203.4#
98 65.9 49.2 73.8





#13

Acrolein

Concen: 22.578 ug/l

RT: 3.92 min Scan# 340

Delta R.T. -0.01 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

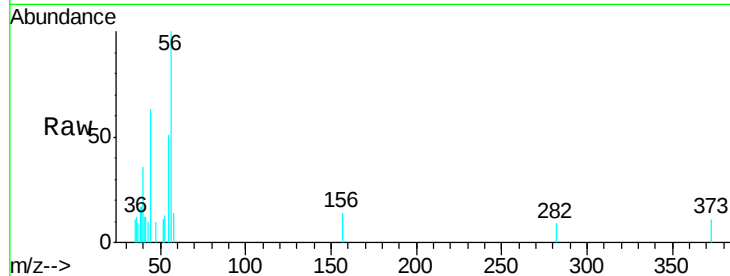
LOD-MDL-SOIL-01-QT4-2019

Tgt Ion: 56 Resp: 3631

Ion Ratio Lower Upper

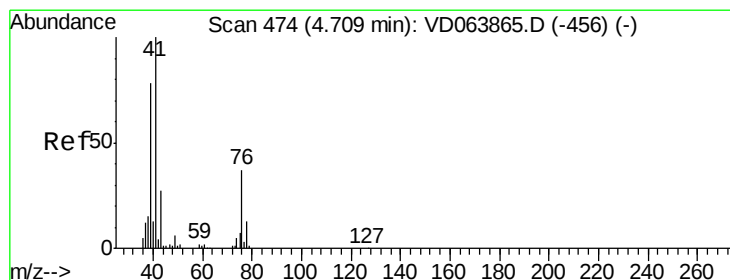
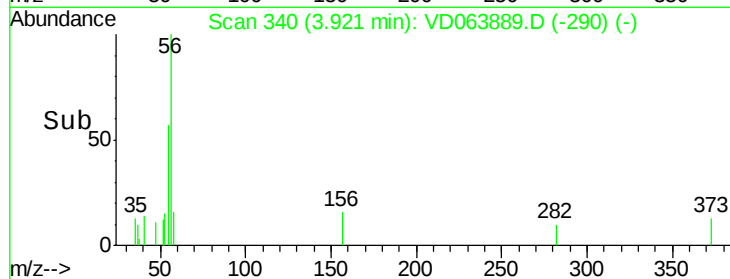
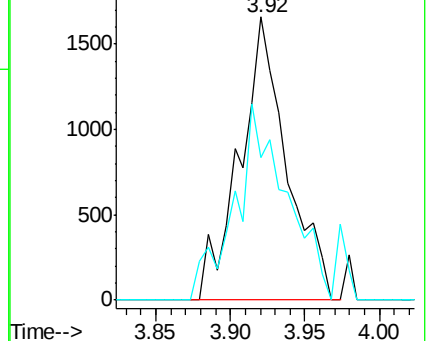
56 100

55 76.3 53.0 79.6



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 4.018 ug/l

RT: 4.71 min Scan# 475

Delta R.T. 0.01 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

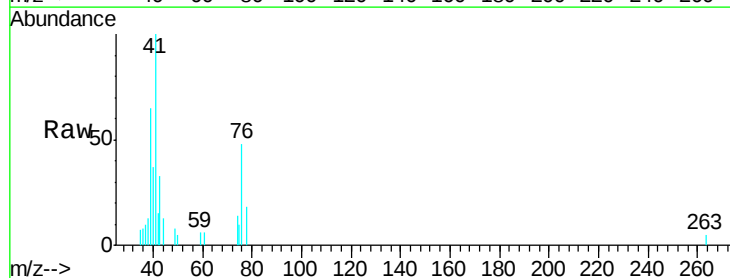
Tgt Ion: 41 Resp: 10355

Ion Ratio Lower Upper

41 100

39 80.1 61.8 92.6

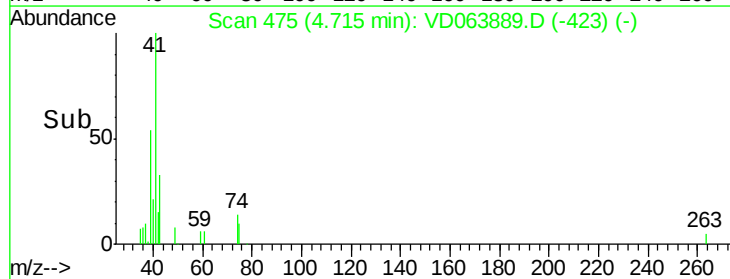
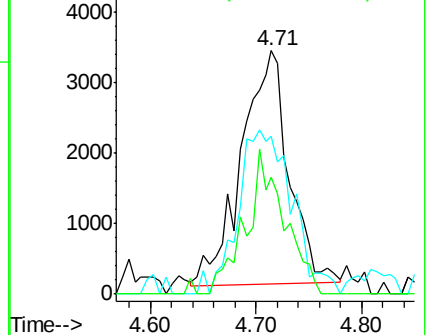
76 50.5 31.3 46.9#

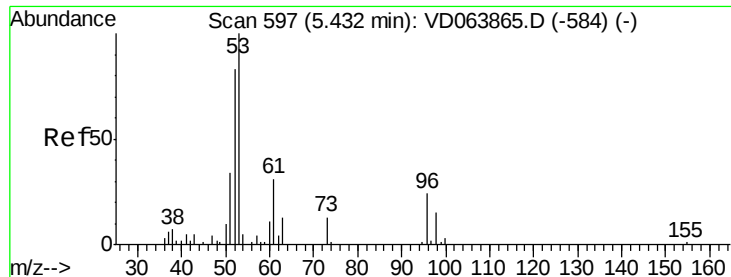


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC





#15

Acrylonitrile

Concen: 20.538 ug/l

RT: 5.44 min Scan# 599

Delta R.T. 0.01 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

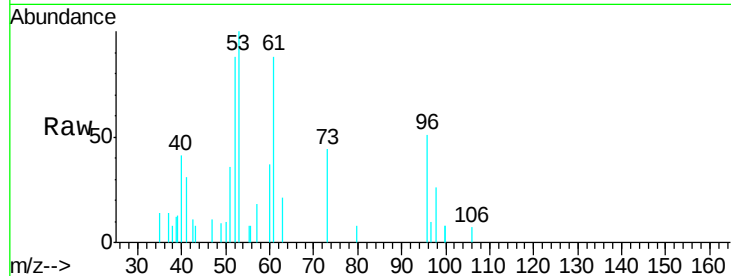
Tgt Ion: 53 Resp: 8146

Ion Ratio Lower Upper

53 100

52 82.8 67.3 100.9

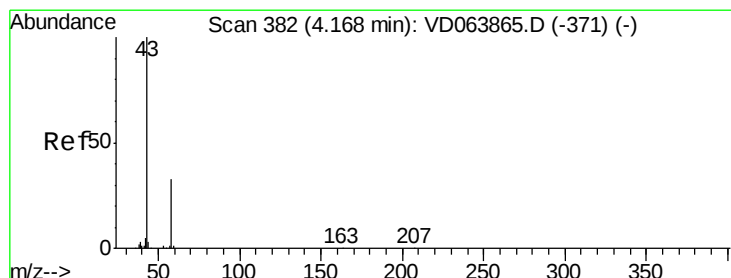
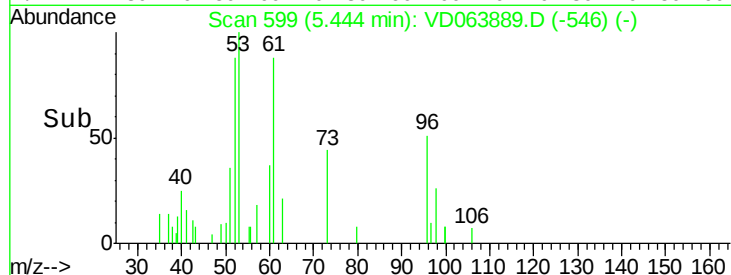
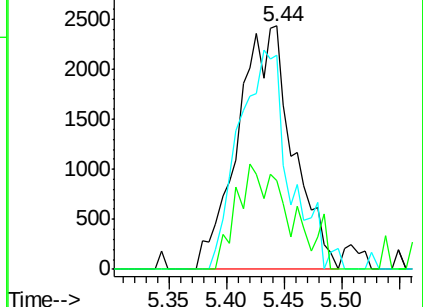
51 0.0 30.5 45.7#



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: 21.928 ug/l

RT: 4.17 min Scan# 382

Delta R.T. -0.00 min

Lab File: VD063889.D

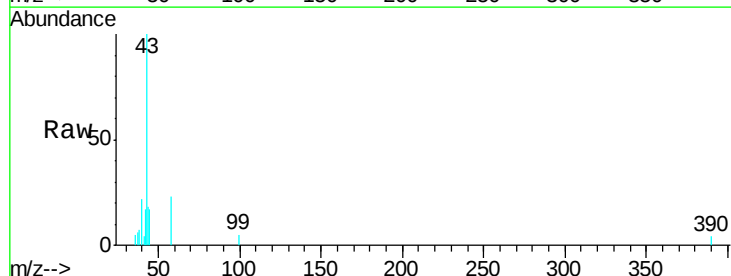
Acq: 04 Oct 2019 17:11

Tgt Ion: 43 Resp: 10280

Ion Ratio Lower Upper

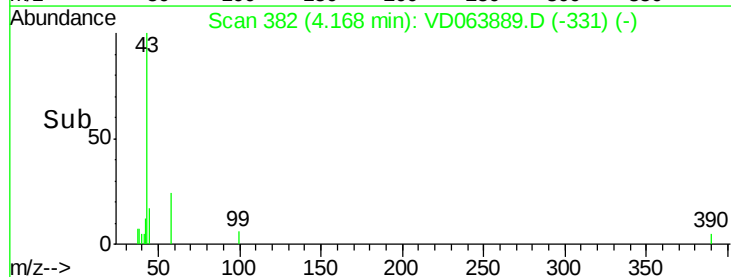
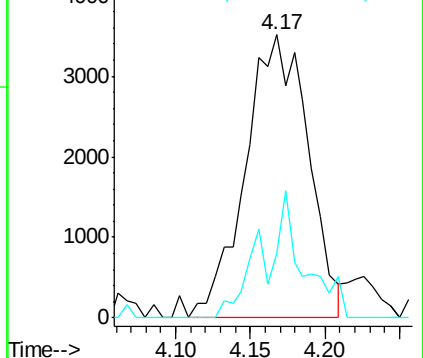
43 100

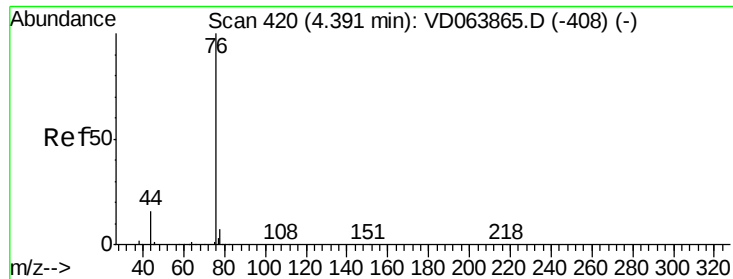
58 22.6 26.2 39.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#17

Carbon Disulfide

Concen: 4.010 ug/l

RT: 4.39 min Scan# 420

Delta R.T. -0.00 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

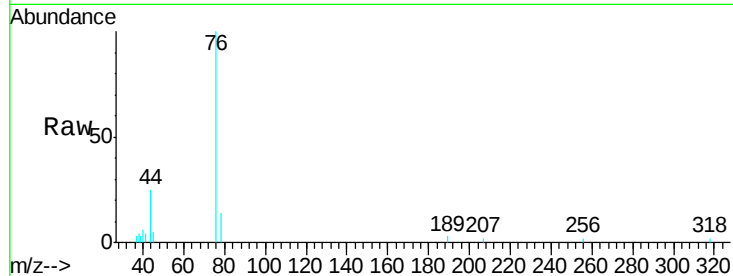
LOD-MDL-SOIL-01-QT4-2019

Tgt Ion: 76 Resp: 22596

Ion Ratio Lower Upper

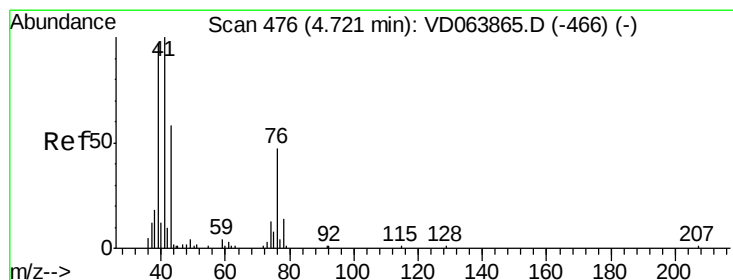
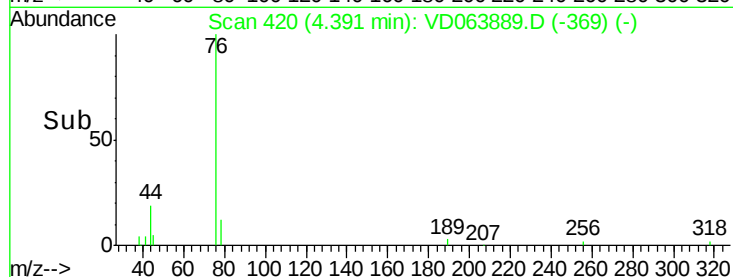
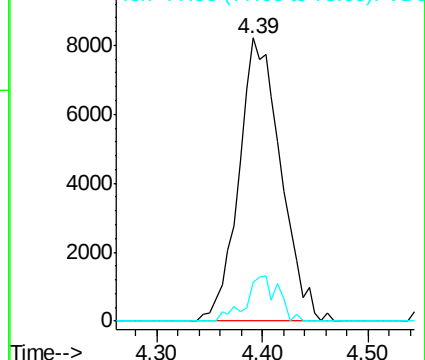
76 100

78 13.7 5.8 8.8#



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#18

Methyl Acetate

Concen: 4.950 ug/l

RT: 4.73 min Scan# 478

Delta R.T. 0.01 min

Lab File: VD063889.D

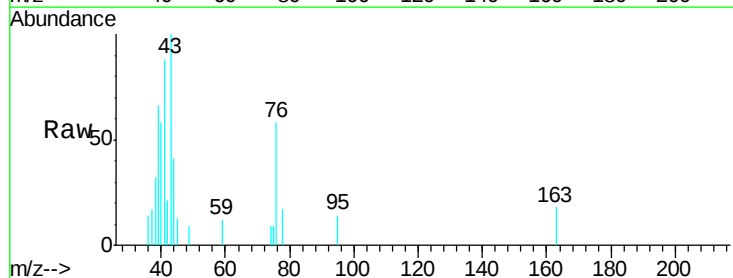
Acq: 04 Oct 2019 17:11

Tgt Ion: 43 Resp: 4539

Ion Ratio Lower Upper

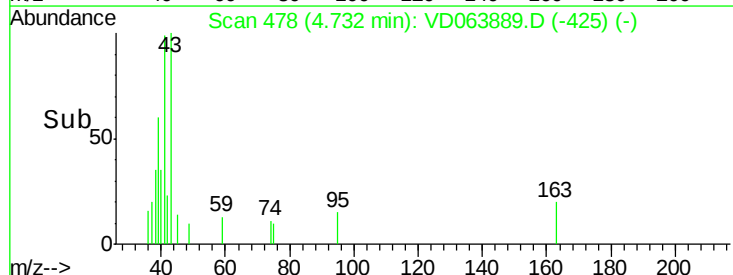
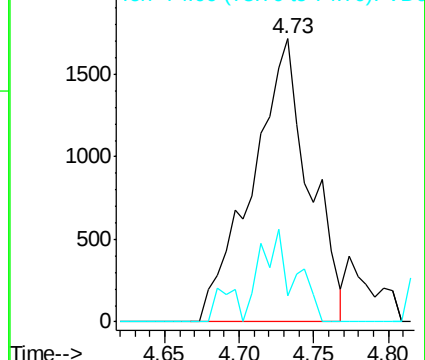
43 100

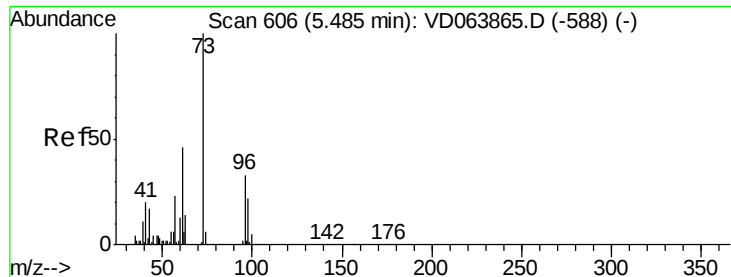
74 19.3 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

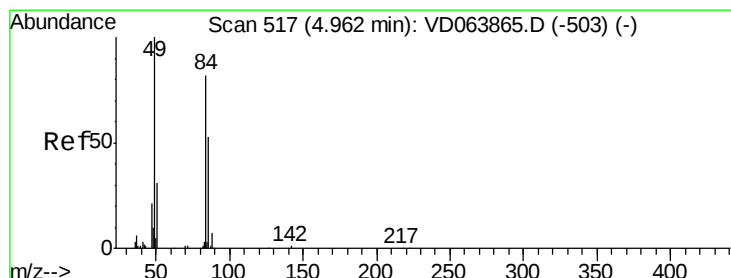
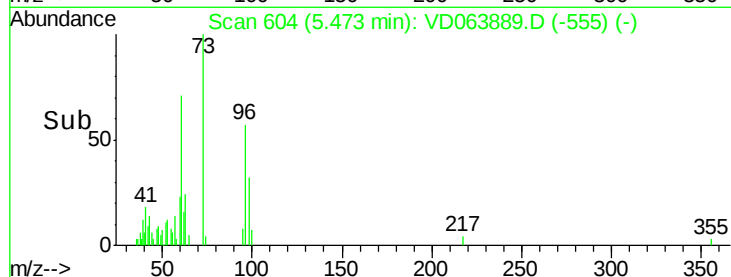
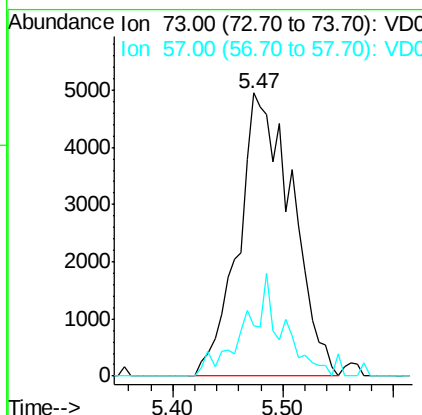
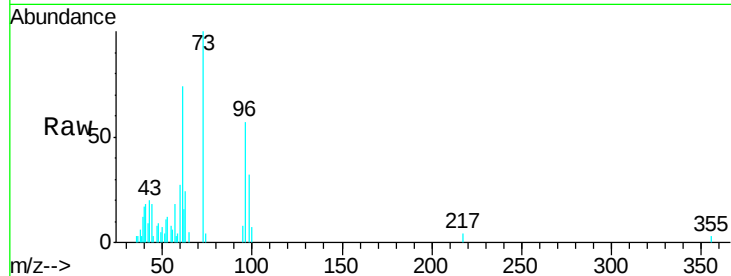




#19
Methyl tert-butyl Ether
Concen: 4.199 ug/l
RT: 5.47 min Scan# 604
Delta R.T. -0.01 min
Lab File: VD063889.D
Acq: 04 Oct 2019 17:11

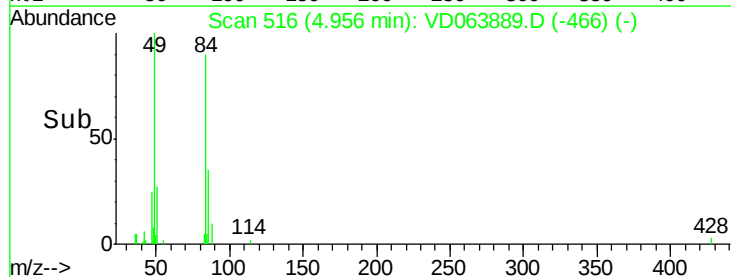
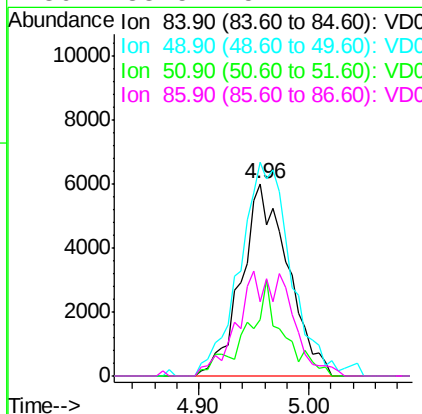
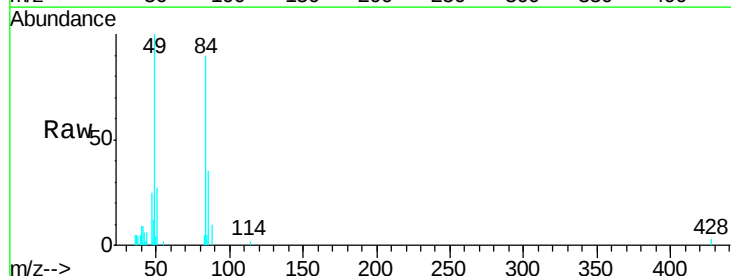
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

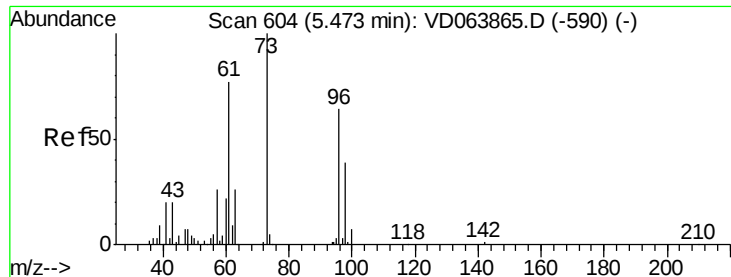
Tgt Ion: 73 Resp: 16854
Ion Ratio Lower Upper
73 100
57 17.9 18.1 27.1#



#20
Methylene Chloride
Concen: 7.368 ug/l
RT: 4.96 min Scan# 516
Delta R.T. -0.01 min
Lab File: VD063889.D
Acq: 04 Oct 2019 17:11

Tgt Ion: 84 Resp: 17727
Ion Ratio Lower Upper
84 100
49 111.1 97.3 145.9
51 29.5 30.1 45.1#
86 38.5 51.4 77.2#





#21

trans-1,2-Dichloroethene

Concen: 4.534 ug/l

RT: 5.47 min Scan# 603

Delta R.T. -0.01 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

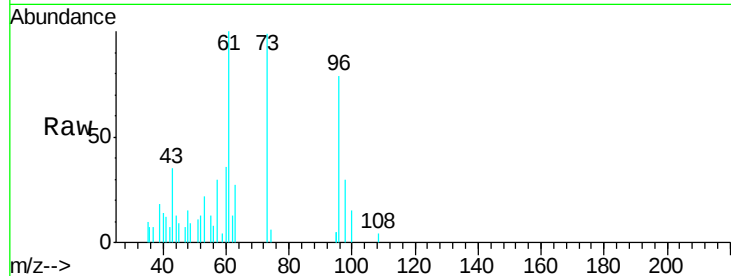
Tgt Ion: 96 Resp: 8748

Ion Ratio Lower Upper

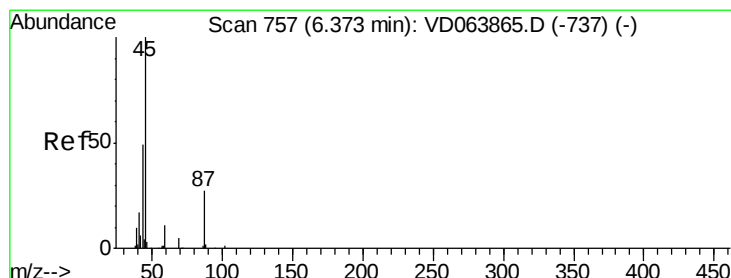
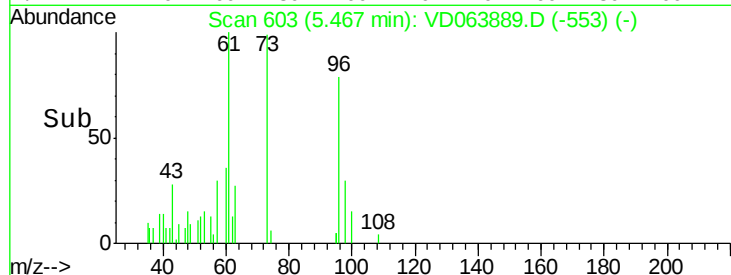
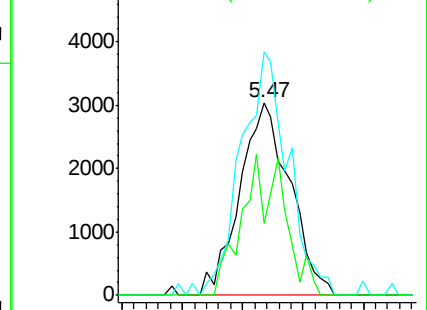
96 100

61 126.5 96.6 145.0

98 37.5 48.7 73.1#



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



#22

Diisopropyl ether

Concen: 4.498 ug/l

RT: 6.37 min Scan# 756

Delta R.T. -0.01 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

Tgt Ion: 45 Resp: 23671

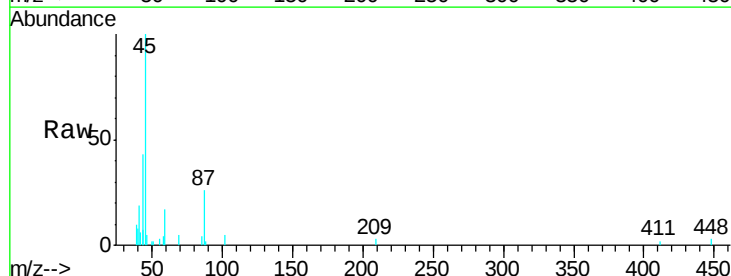
Ion Ratio Lower Upper

45 100

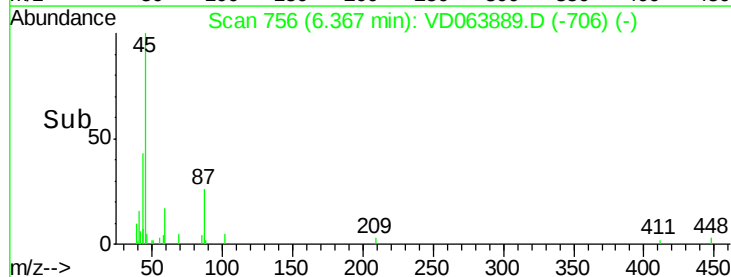
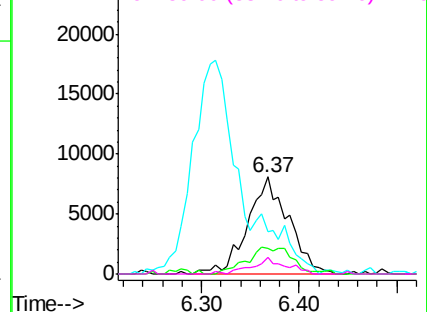
43 41.6 41.2 61.8

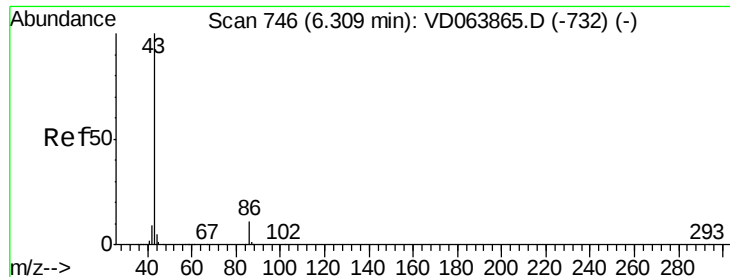
87 25.9 22.2 33.4

59 17.1 9.2 13.8#



Abundance Ion 45.00 (44.70 to 45.70): VDC
Ion 43.00 (42.70 to 43.70): VDC
Ion 87.00 (86.70 to 87.70): VDC
Ion 59.00 (58.70 to 59.70): VDC





#23

Vinyl Acetate

Concen: 16.439 ug/l

RT: 6.31 min Scan# 747

Delta R.T. 0.01 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

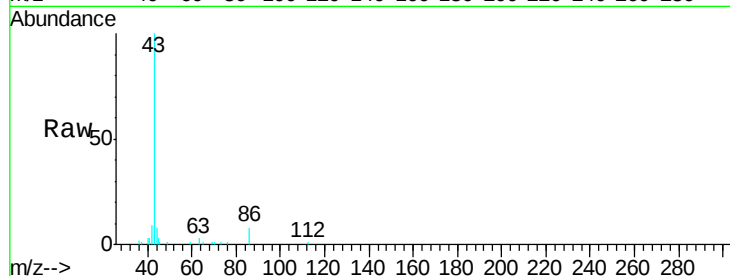
LOD-MDL-SOIL-01-QT4-2019

Tgt Ion: 43 Resp: 51470

Ion Ratio Lower Upper

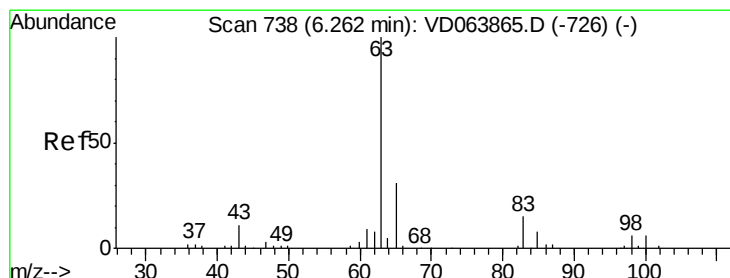
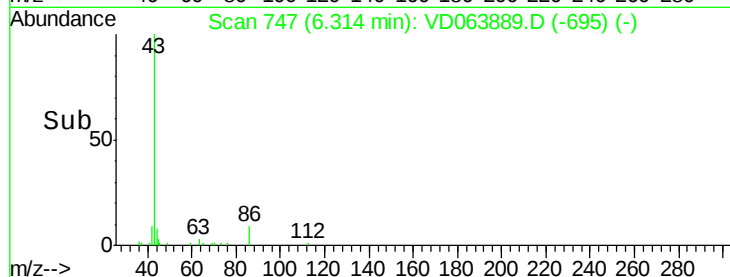
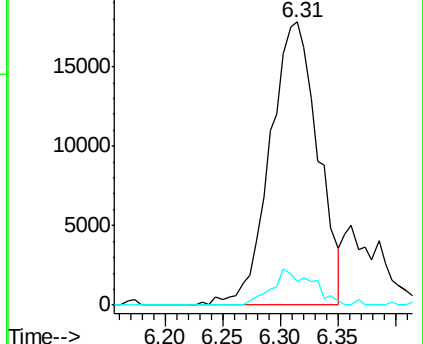
43 100

86 8.4 8.8 13.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 4.710 ug/l

RT: 6.27 min Scan# 739

Delta R.T. 0.01 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

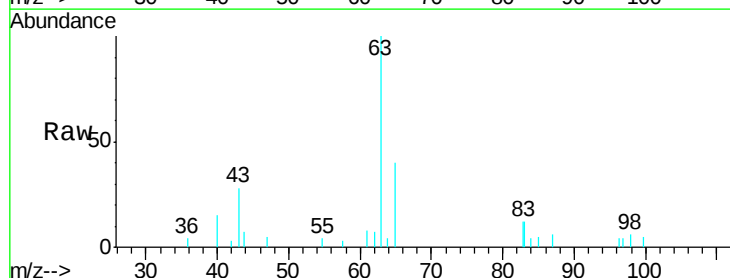
Tgt Ion: 63 Resp: 15270

Ion Ratio Lower Upper

63 100

98 5.6 3.1 9.4

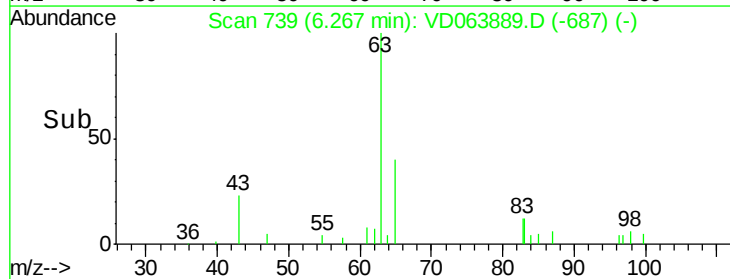
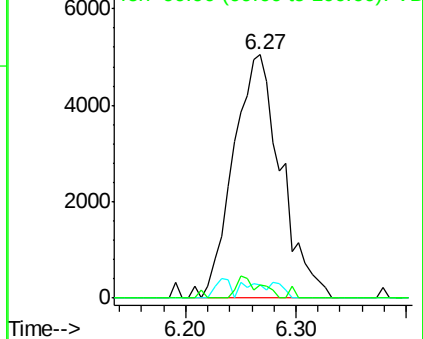
100 5.4 3.0 9.2

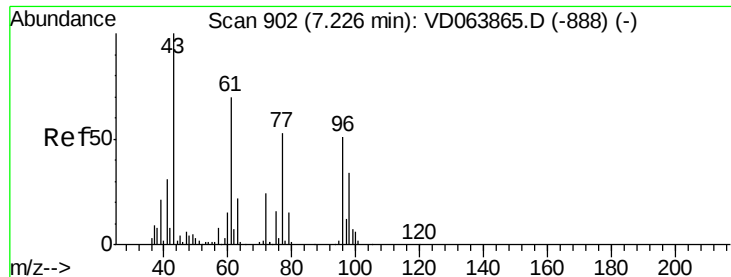


Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC





#25

2-Butanone

Concen: 22.753 ug/l

RT: 7.23 min Scan# 903

Delta R.T. 0.01 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

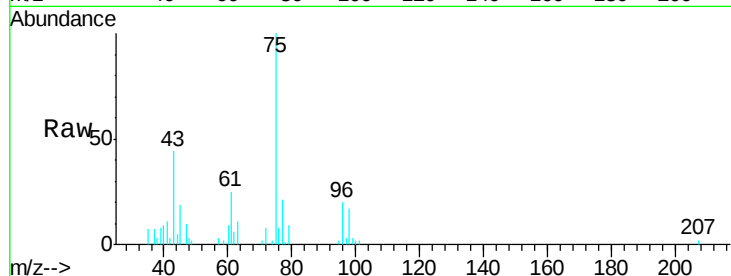
LOD-MDL-SOIL-01-QT4-2019

Tgt Ion: 43 Resp: 12641

Ion Ratio Lower Upper

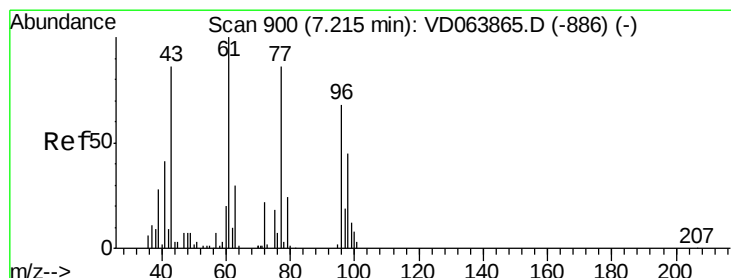
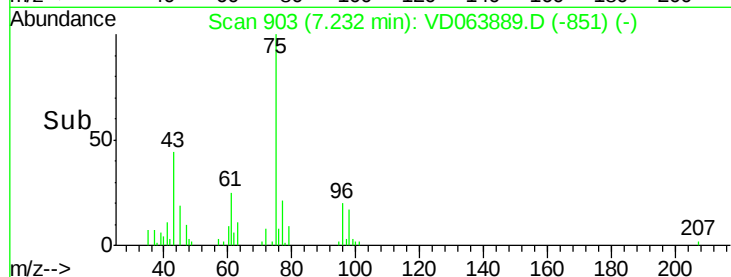
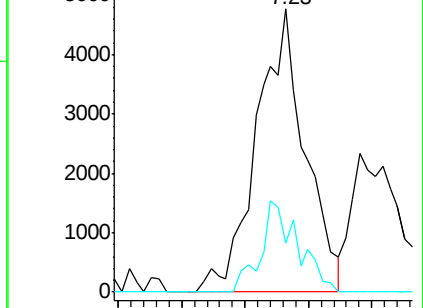
43 100

72 17.4 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 4.668 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.01 min

Lab File: VD063889.D

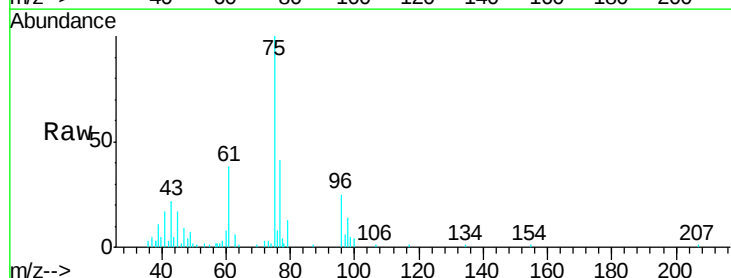
Acq: 04 Oct 2019 17:11

Tgt Ion: 77 Resp: 13690

Ion Ratio Lower Upper

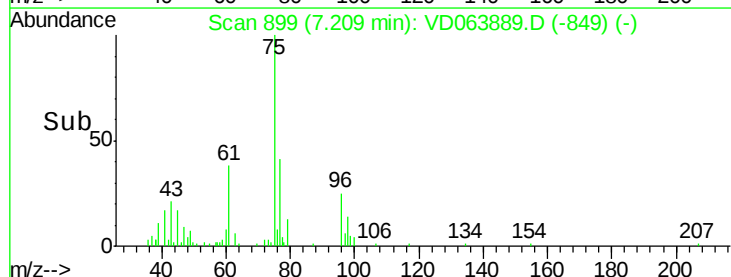
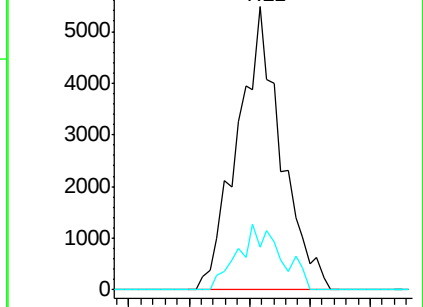
77 100

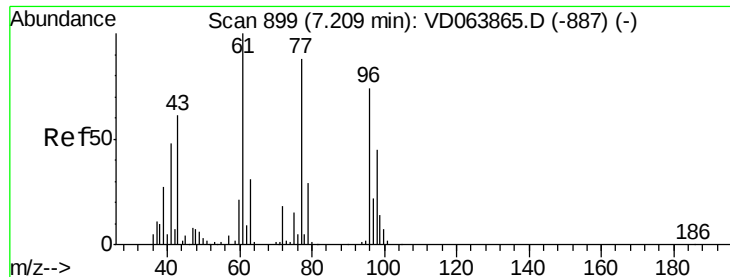
97 22.8 11.4 34.1



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC



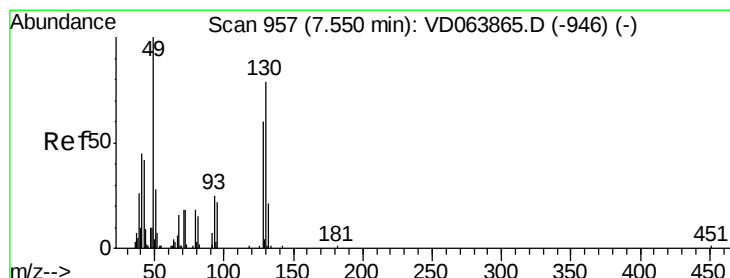
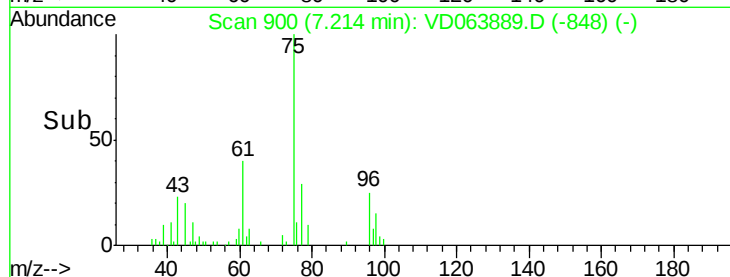
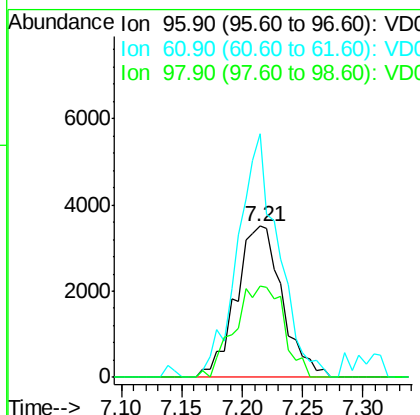
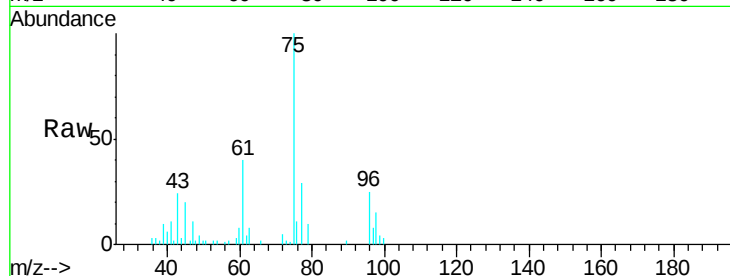


#27

cis-1,2-Dichloroethene
 Concen: 4.254 ug/l
 RT: 7.21 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VD063889.D
 Acq: 04 Oct 2019 17:11

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

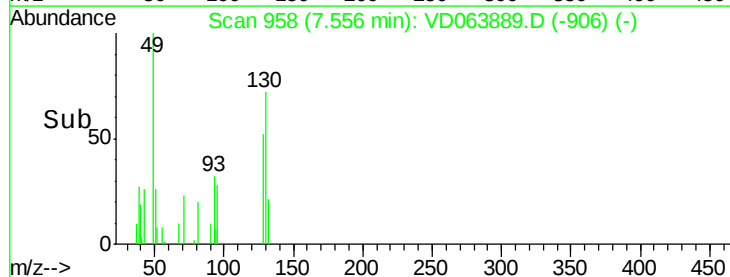
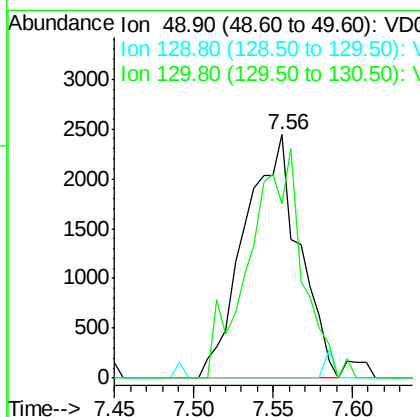
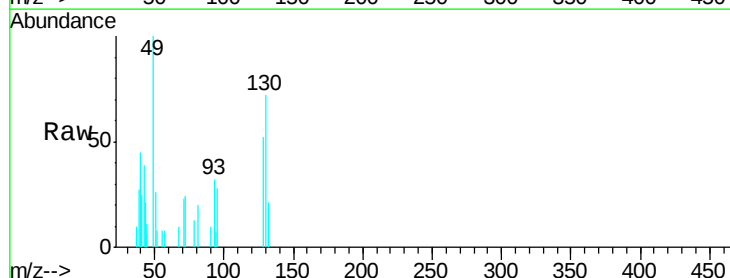
Tgt Ion: 96 Resp: 9291
 Ion Ratio Lower Upper
 96 100
 61 142.5 0.0 280.0
 98 64.4 0.0 130.4

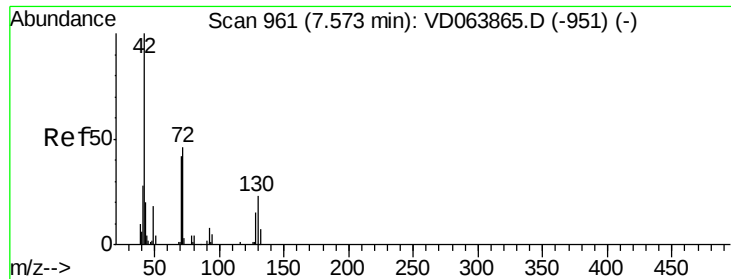


#28

Bromochloromethane
 Concen: 4.815 ug/l
 RT: 7.56 min Scan# 958
 Delta R.T. 0.01 min
 Lab File: VD063889.D
 Acq: 04 Oct 2019 17:11

Tgt Ion: 49 Resp: 5849
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 5.6
 130 91.5 66.8 100.2

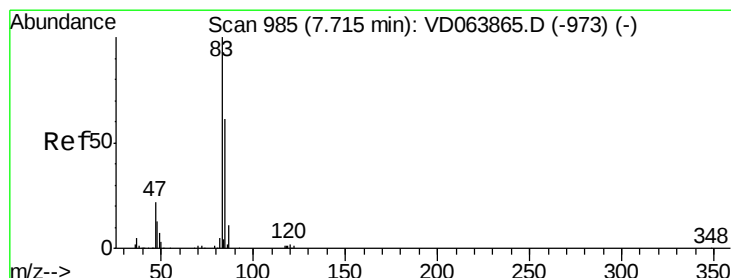
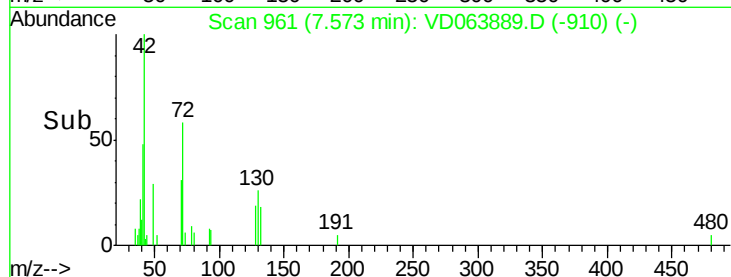
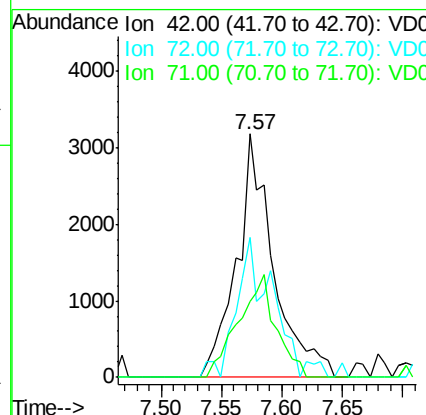
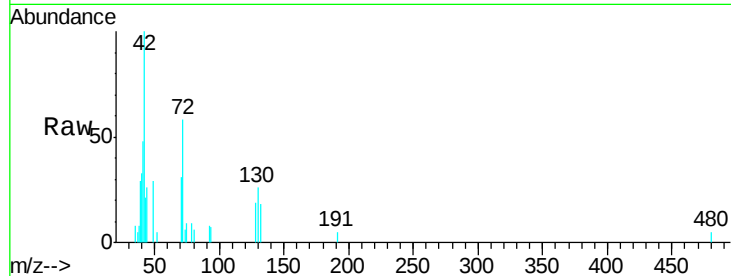




#29
Tetrahydrofuran
Concen: 20.797 ug/l
RT: 7.57 min Scan# 961
Delta R.T. -0.00 min
Lab File: VD063889.D
Acq: 04 Oct 2019 17:11

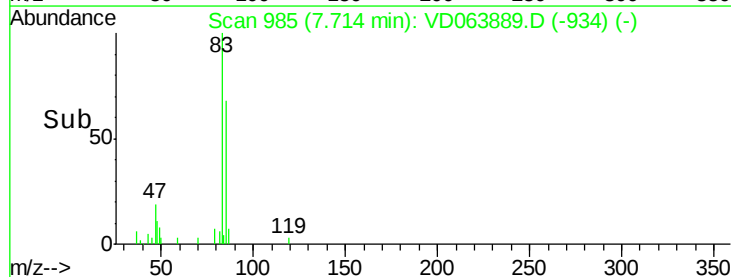
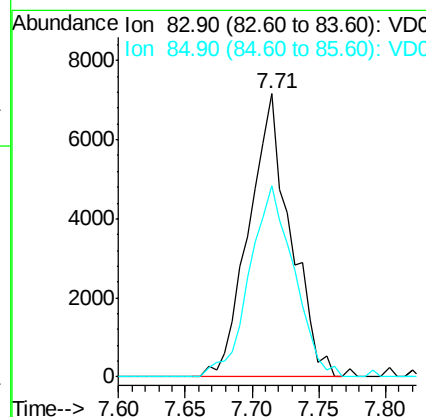
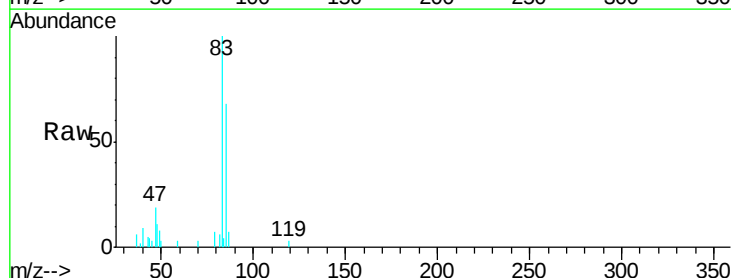
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

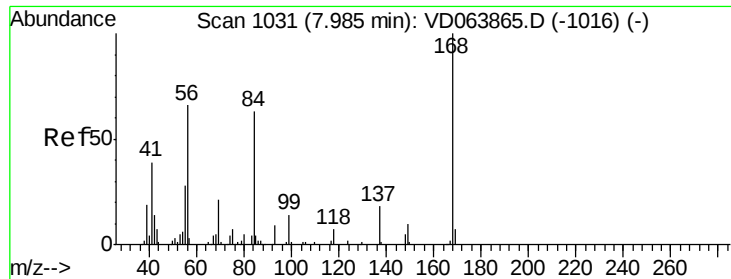
Tgt Ion: 42 Resp: 6744
Ion Ratio Lower Upper
42 100
72 56.7 37.6 56.4#
71 42.9 35.0 52.6



#30
Chloroform
Concen: 4.369 ug/l
RT: 7.71 min Scan# 985
Delta R.T. -0.00 min
Lab File: VD063889.D
Acq: 04 Oct 2019 17:11

Tgt Ion: 83 Resp: 15382
Ion Ratio Lower Upper
83 100
85 67.5 48.9 73.3

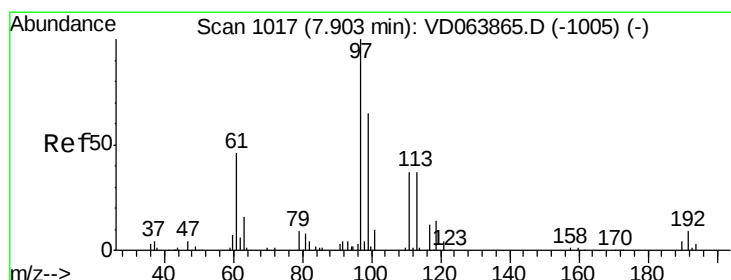
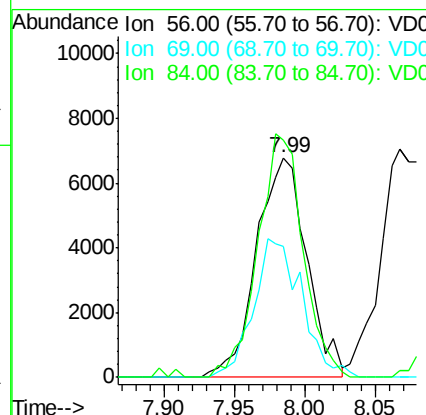
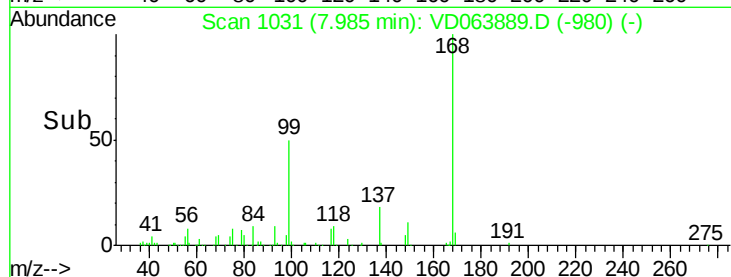
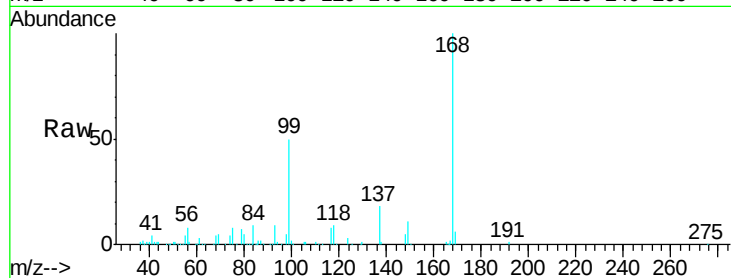




#31
Cyclohexane
Concen: 5.570 ug/l
RT: 7.99 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD063889.D
Acq: 04 Oct 2019 17:11

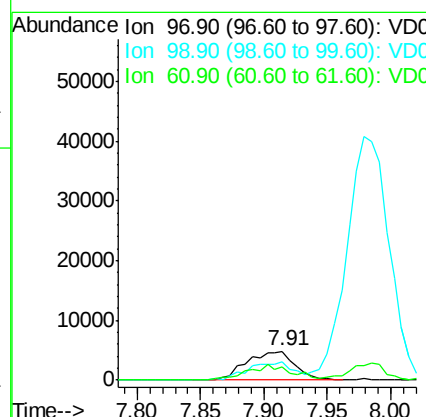
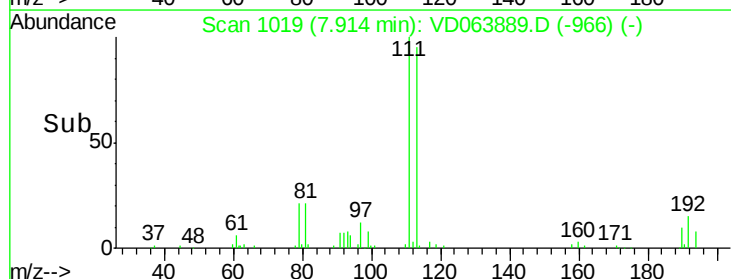
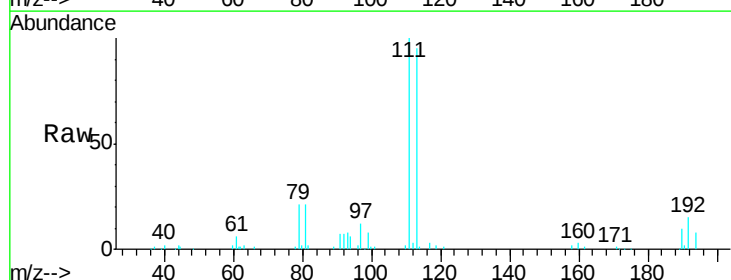
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

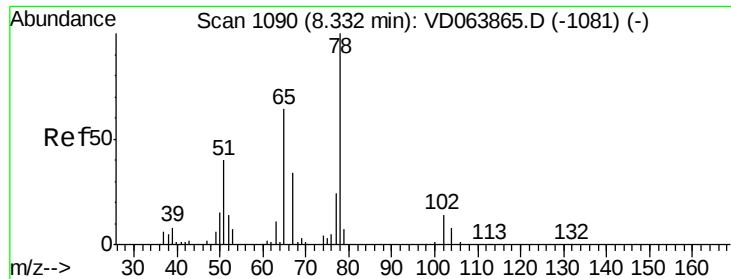
Tgt Ion: 56 Resp: 16933
Ion Ratio Lower Upper
56 100
69 59.5 25.0 37.4#
84 107.8 76.3 114.5



#32
1,1,1-Trichloroethane
Concen: 4.204 ug/l
RT: 7.91 min Scan# 1019
Delta R.T. 0.01 min
Lab File: VD063889.D
Acq: 04 Oct 2019 17:11

Tgt Ion: 97 Resp: 12697
Ion Ratio Lower Upper
97 100
99 59.4 52.4 78.6
61 47.5 33.8 50.8

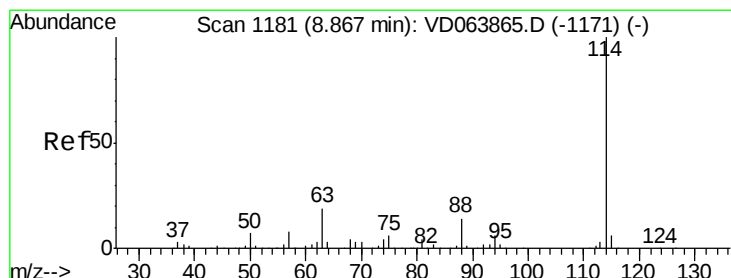
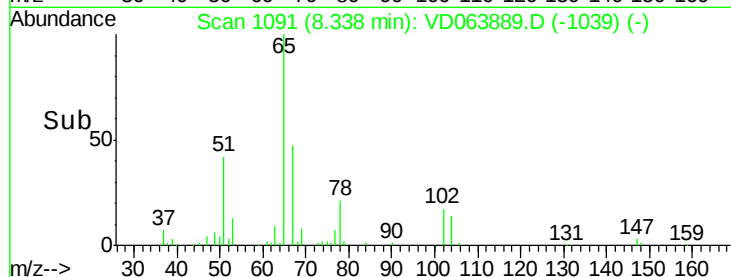
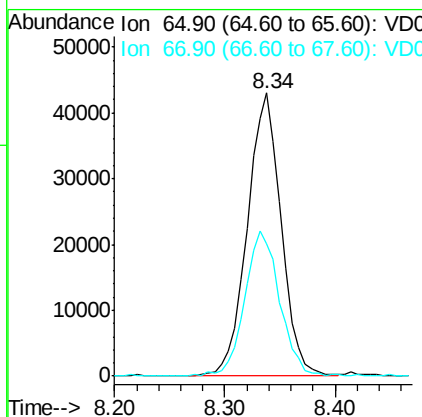
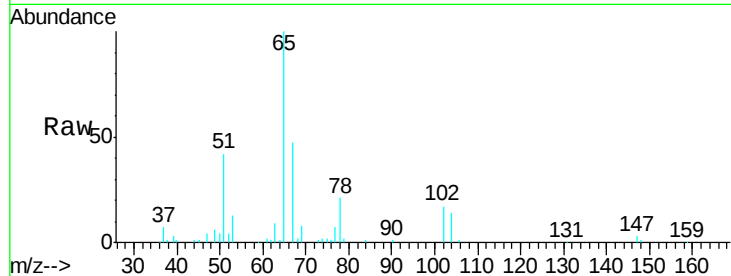




#33
 1,2-Dichloroethane-d4
 Concen: 51.491 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. 0.01 min
 Lab File: VD063889.D
 Acq: 04 Oct 2019 17:11

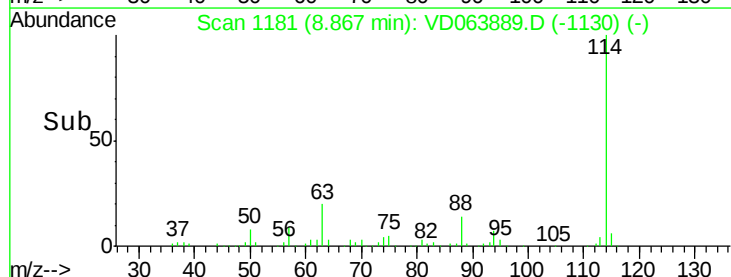
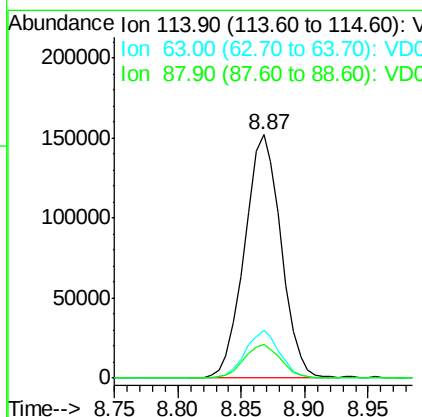
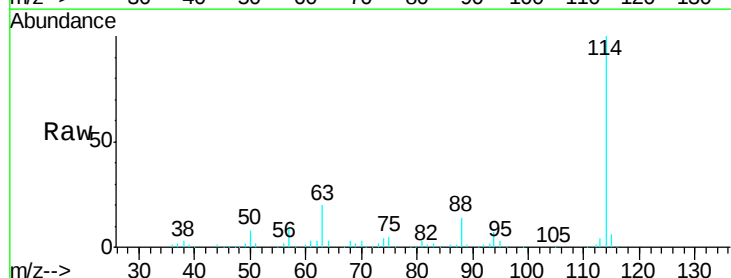
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

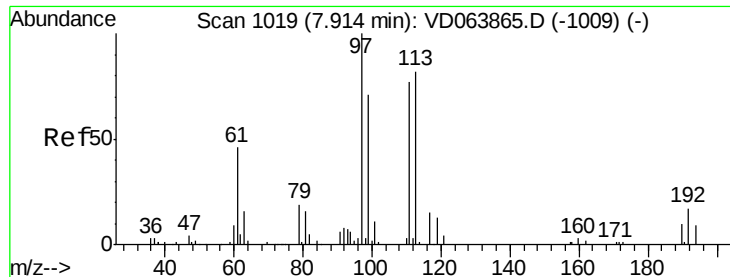
Tgt Ion: 65 Resp: 92716
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 106.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD063889.D
 Acq: 04 Oct 2019 17:11

Tgt Ion: 114 Resp: 305193
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 38.4
 88 13.6 0.0 27.4

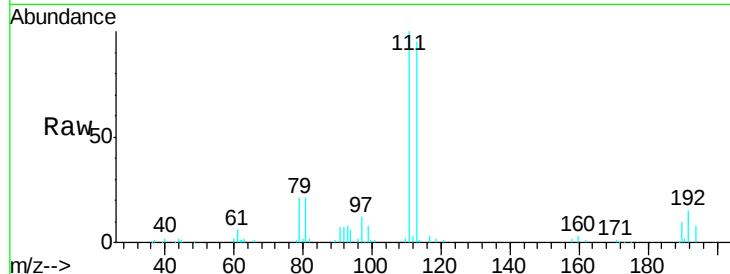




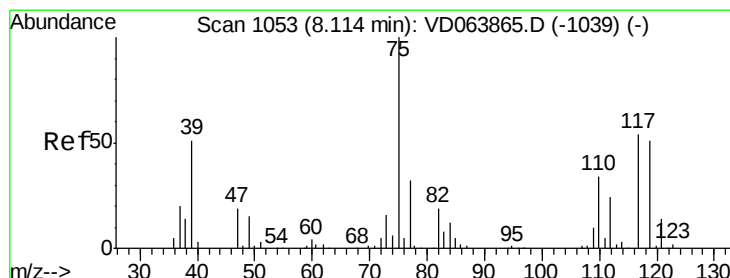
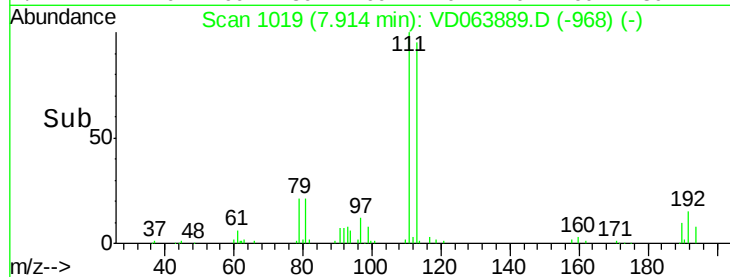
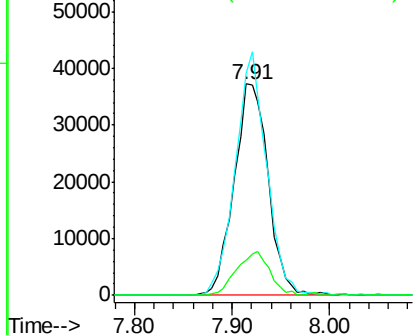
#35
 Dibromofluoromethane
 Concen: 48.685 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. -0.00 min
 Lab File: VD063889.D
 Acq: 04 Oct 2019 17:11

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

Tgt Ion: 113 Resp: 90804
 Ion Ratio Lower Upper
 113 100
 111 105.7 82.6 123.8
 192 20.2 17.1 25.7

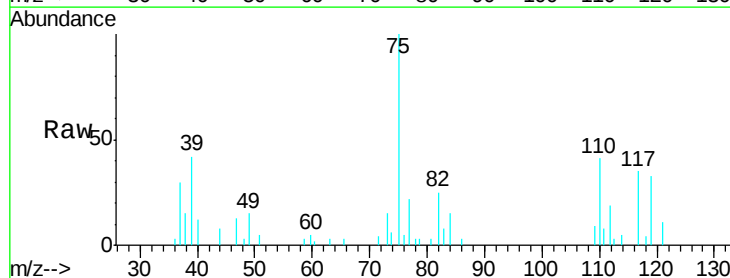


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

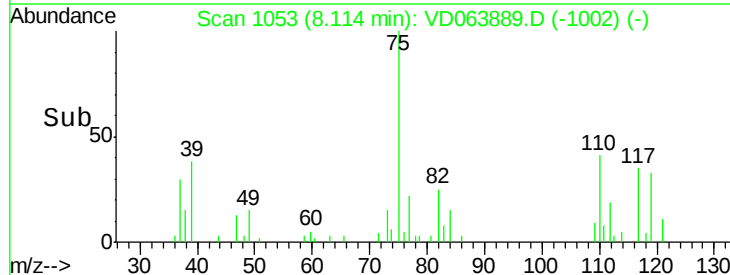
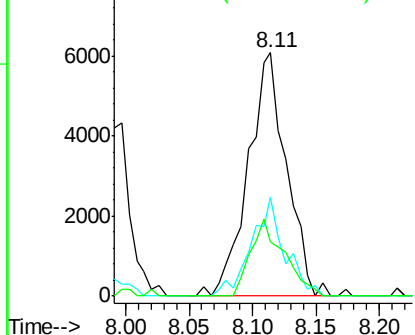


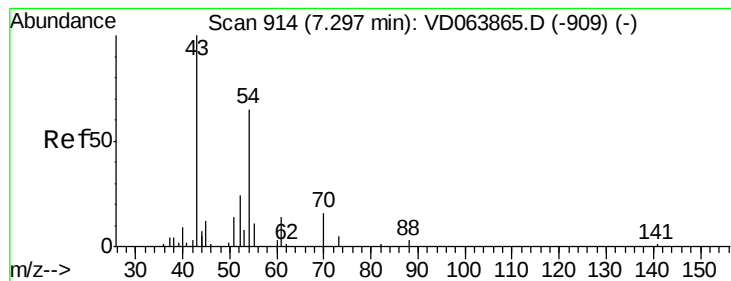
#36
 1,1-Dichloropropene
 Concen: 4.612 ug/l
 RT: 8.11 min Scan# 1053
 Delta R.T. -0.00 min
 Lab File: VD063889.D
 Acq: 04 Oct 2019 17:11

Tgt Ion: 75 Resp: 12869
 Ion Ratio Lower Upper
 75 100
 110 35.1 17.4 52.3
 77 27.5 25.4 38.0



Abundance Ion 74.90 (74.60 to 75.60): VDC
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VDC





#37

Ethyl Acetate

Concen: 4.588 ug/l

RT: 7.29 min Scan# 913

Delta R.T. -0.01 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

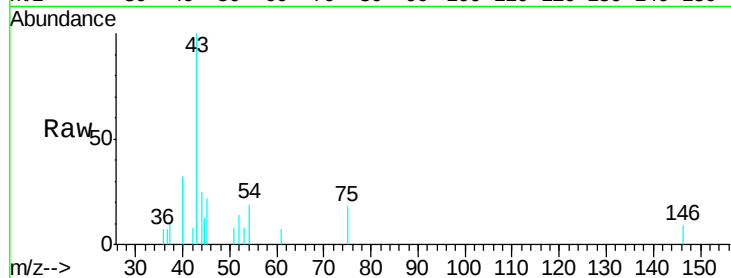
Tgt Ion: 43 Resp: 5810

Ion Ratio Lower Upper

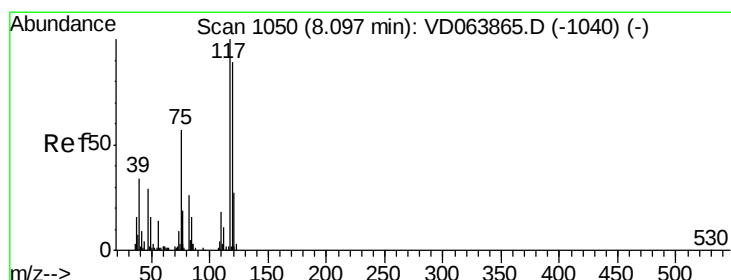
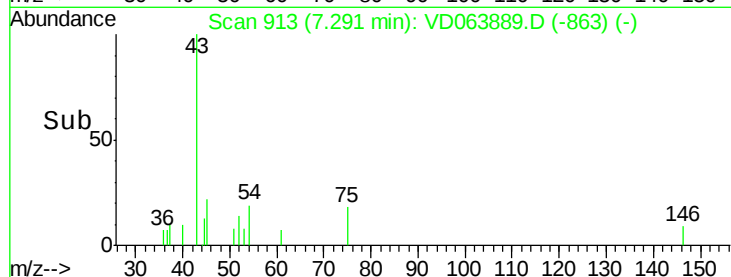
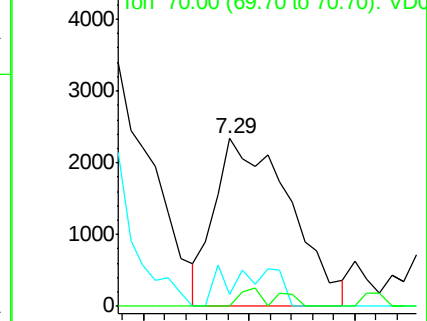
43 100

61 15.7 11.5 17.3

70 2.8 8.2 12.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 70.00 (69.70 to 70.70): VDC



#38

Carbon Tetrachloride

Concen: 4.088 ug/l

RT: 8.09 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

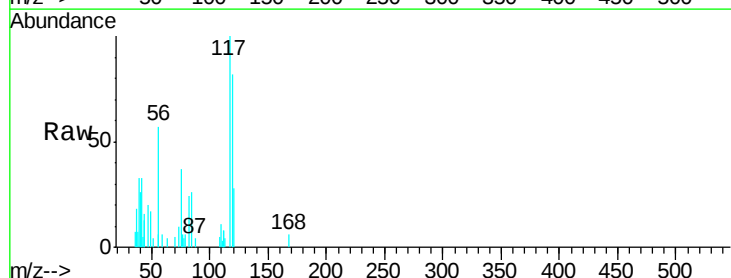
Tgt Ion: 117 Resp: 11528

Ion Ratio Lower Upper

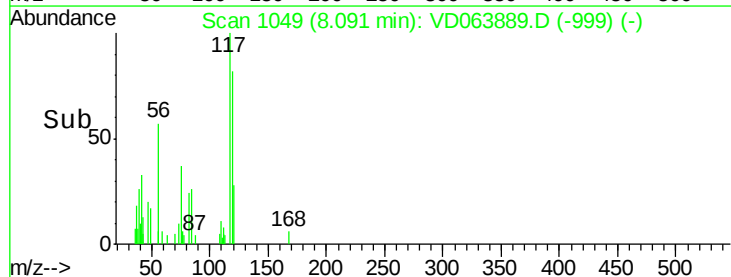
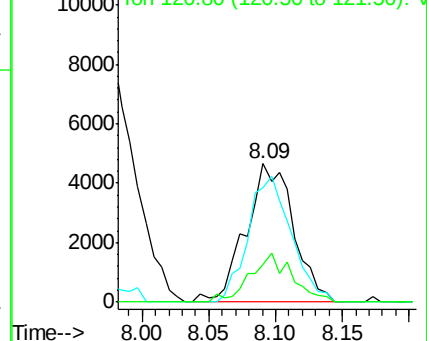
117 100

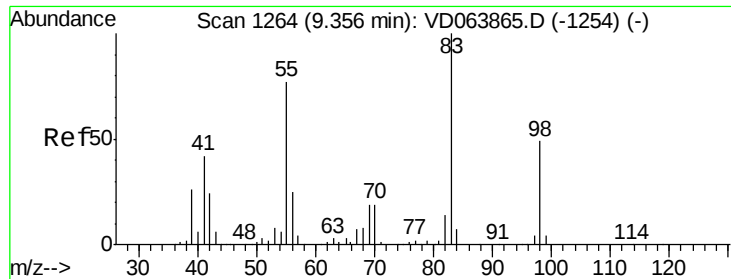
119 82.2 70.8 106.2

121 27.6 21.4 32.0



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

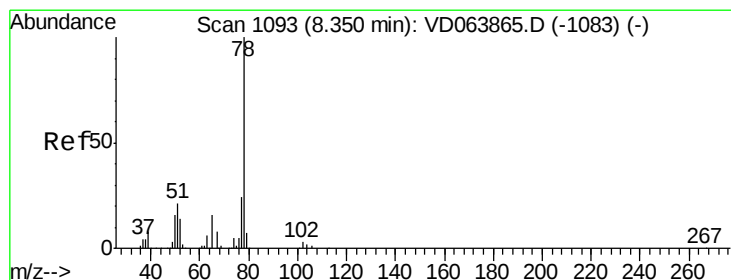
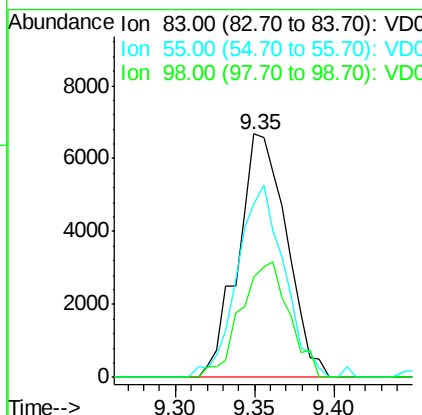
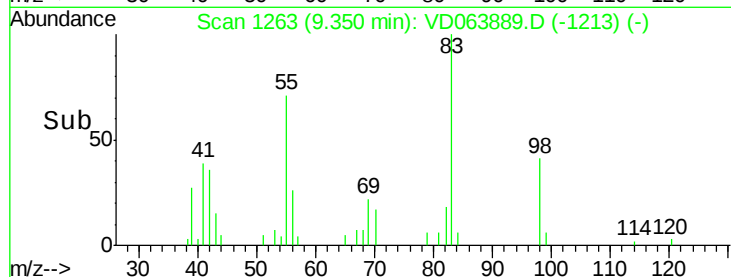
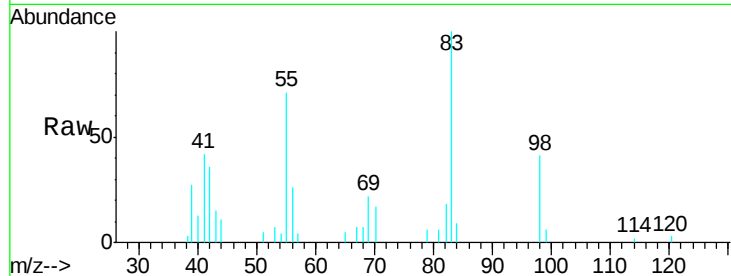




#39
Methylcyclohexane
Concen: 4.147 ug/l
RT: 9.35 min Scan# 1263
Delta R.T. -0.01 min
Lab File: VD063889.D
Acq: 04 Oct 2019 17:11

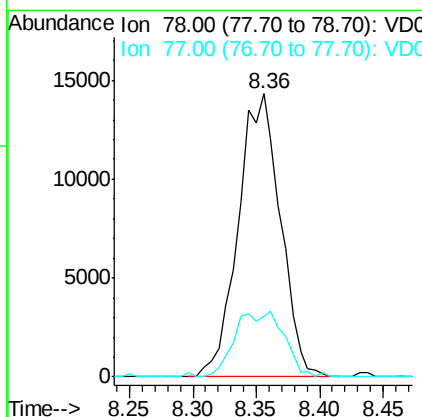
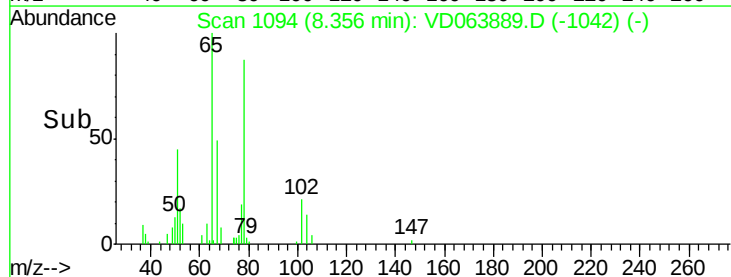
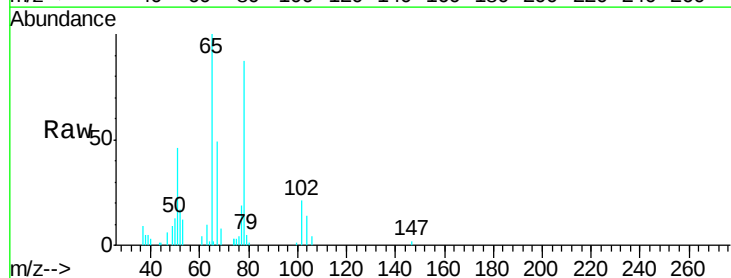
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

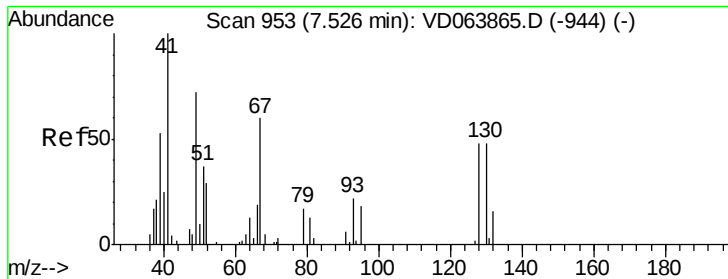
Tgt Ion: 83 Resp: 14227
Ion Ratio Lower Upper
83 100
55 71.3 61.3 91.9
98 41.4 39.3 58.9



#40
Benzene
Concen: 4.134 ug/l
RT: 8.36 min Scan# 1094
Delta R.T. 0.01 min
Lab File: VD063889.D
Acq: 04 Oct 2019 17:11

Tgt Ion: 78 Resp: 33061
Ion Ratio Lower Upper
78 100
77 21.7 19.0 28.6





#41

Methacrylonitrile

Concen: 2.739 ug/l

RT: 7.53 min Scan# 954

Delta R.T. 0.01 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tgt Ion: 41 Resp: 1772

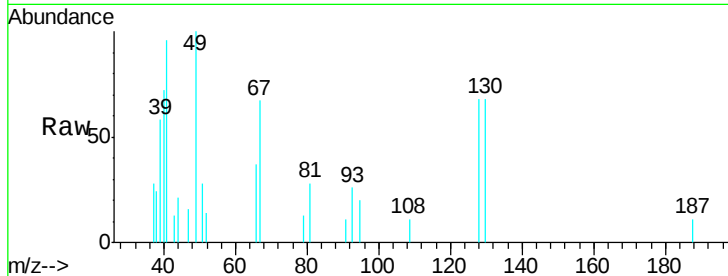
Ion Ratio Lower Upper

41 100

39 0.0 52.6 78.8#

67 110.3 74.2 111.2

52 25.1 34.0 51.0#

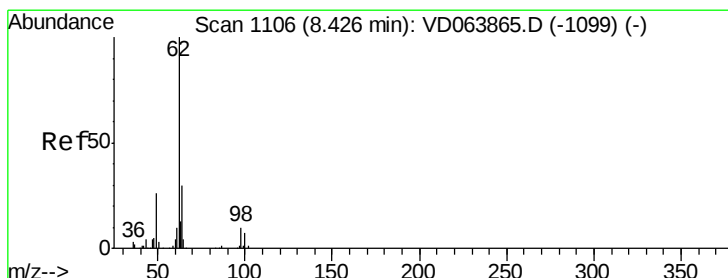
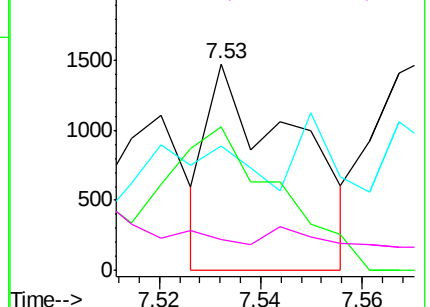
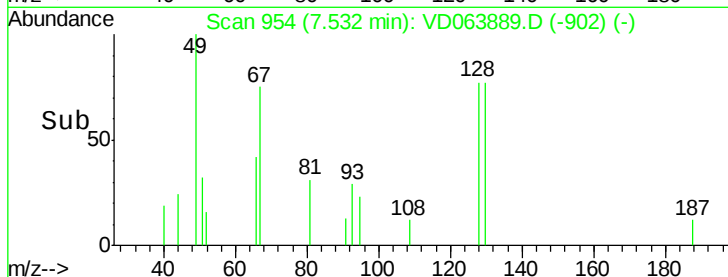


Abundance Ion 41.00 (40.70 to 41.70): VDC

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: 4.587 ug/l

RT: 8.43 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VD063889.D

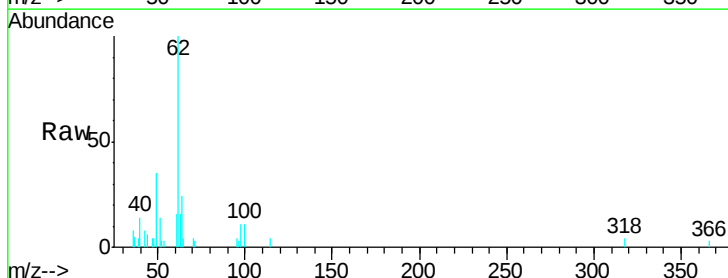
Acq: 04 Oct 2019 17:11

Tgt Ion: 62 Resp: 10610

Ion Ratio Lower Upper

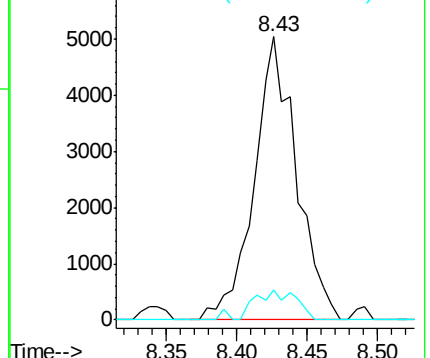
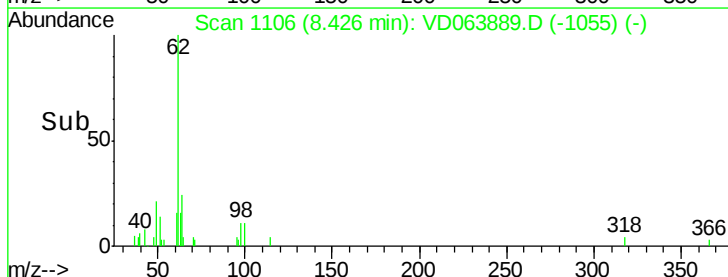
62 100

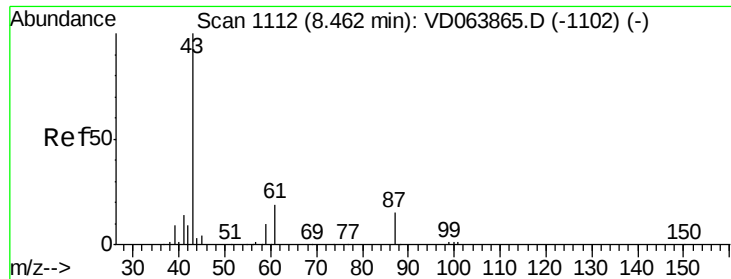
98 10.1 0.0 20.0



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 97.90 (97.60 to 98.60): VDC





#43

Isopropyl Acetate

Concen: 4.218 ug/l

RT: 8.46 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

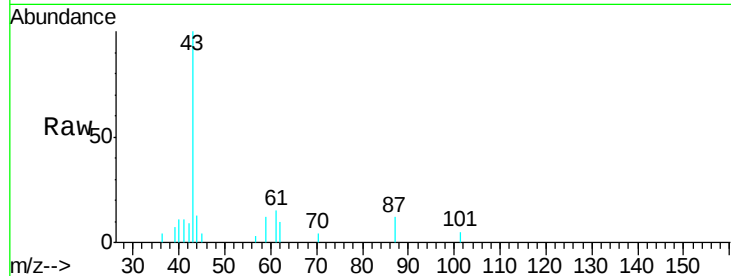
Tgt Ion: 43 Resp: 9870

Ion Ratio Lower Upper

43 100

61 0.0 25.7 38.5#

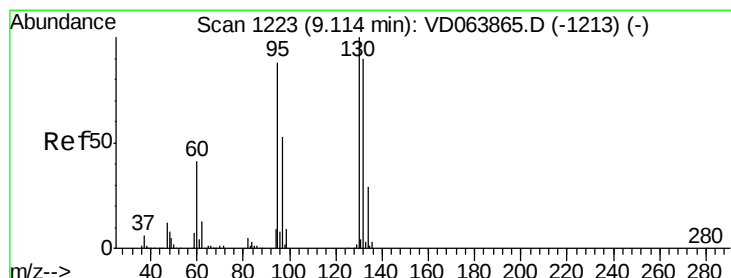
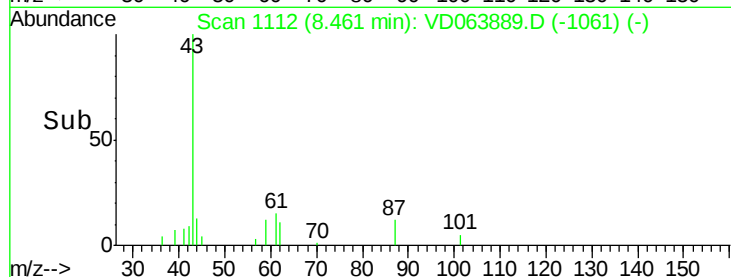
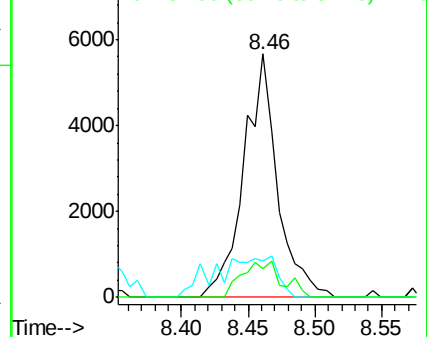
87 17.6 11.6 17.4#



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: 4.305 ug/l

RT: 9.11 min Scan# 1223

Delta R.T. -0.00 min

Lab File: VD063889.D

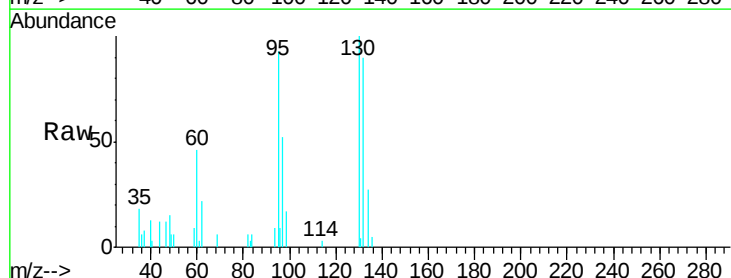
Acq: 04 Oct 2019 17:11

Tgt Ion: 130 Resp: 9927

Ion Ratio Lower Upper

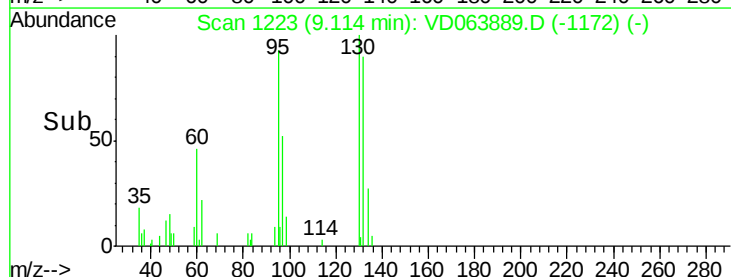
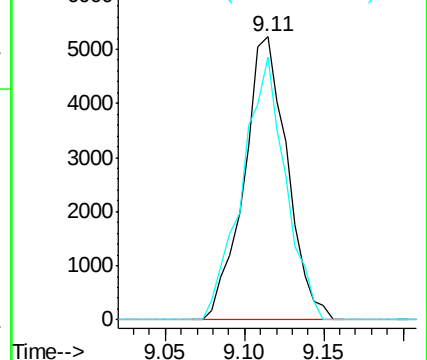
130 100

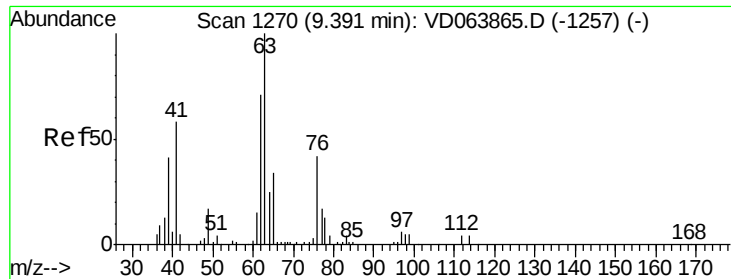
95 92.9 0.0 175.6



Abundance Ion 129.80 (129.50 to 130.50): VDC

Ion 94.90 (94.60 to 95.60): VDC

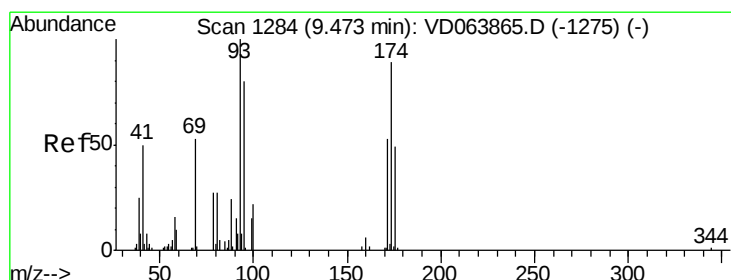
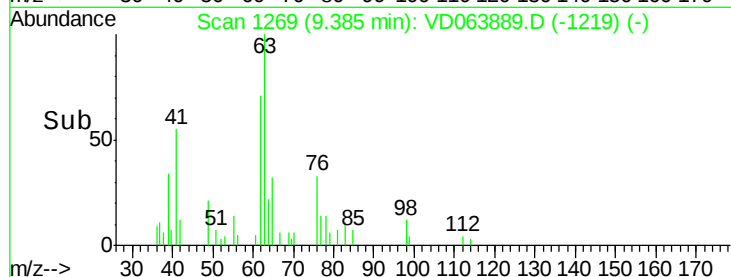
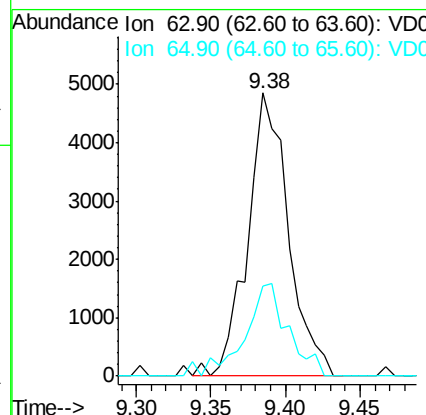
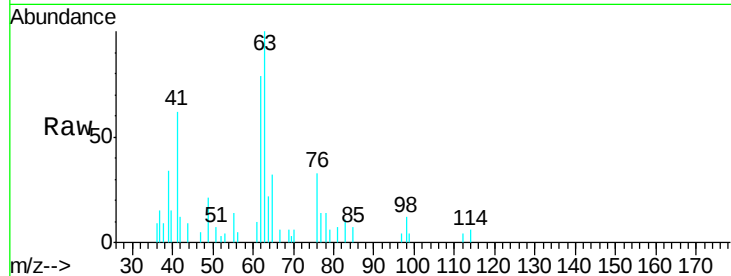




#45
 1,2-Dichloropropane
 Concen: 4.687 ug/l
 RT: 9.38 min Scan# 1269
 Delta R.T. -0.01 min
 Lab File: VD063889.D
 Acq: 04 Oct 2019 17:11

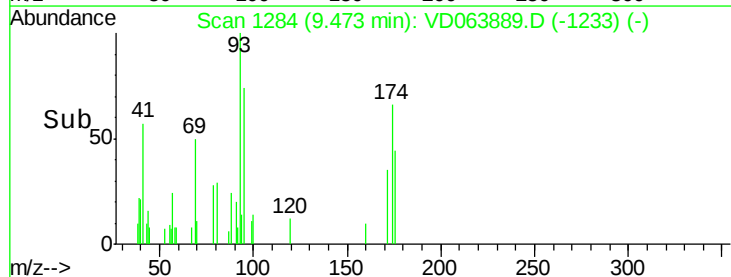
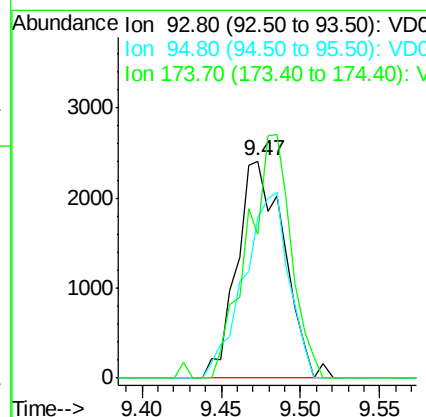
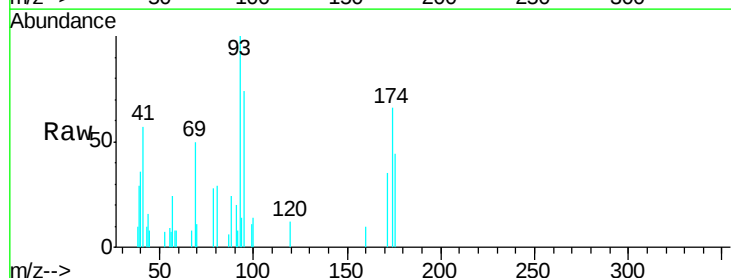
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

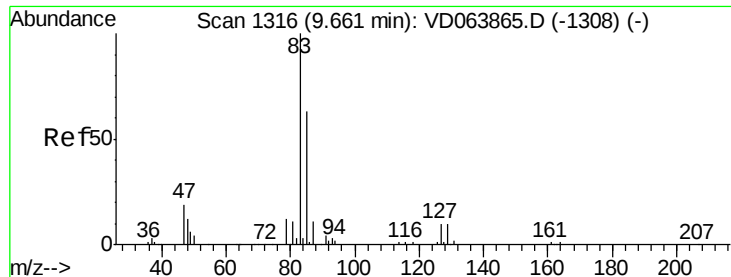
Tgt Ion: 63 Resp: 9173
 Ion Ratio Lower Upper
 63 100
 65 31.8 27.3 40.9



#46
 Dibromomethane
 Concen: 4.448 ug/l
 RT: 9.47 min Scan# 1284
 Delta R.T. -0.00 min
 Lab File: VD063889.D
 Acq: 04 Oct 2019 17:11

Tgt Ion: 93 Resp: 4958
 Ion Ratio Lower Upper
 93 100
 95 81.5 66.0 99.0
 174 104.6 83.4 125.0





#47

Bromodichloromethane

Concen: 3.942 ug/l

RT: 9.67 min Scan# 1317

Delta R.T. 0.01 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

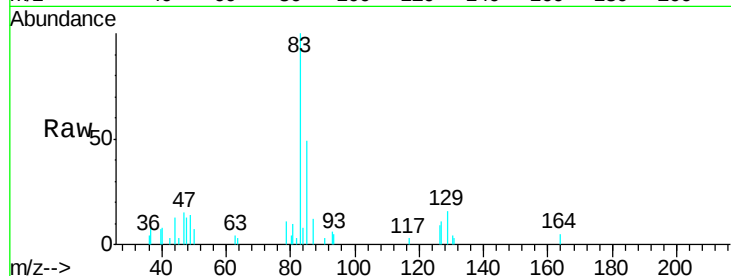
Tgt Ion: 83 Resp: 11313

Ion Ratio Lower Upper

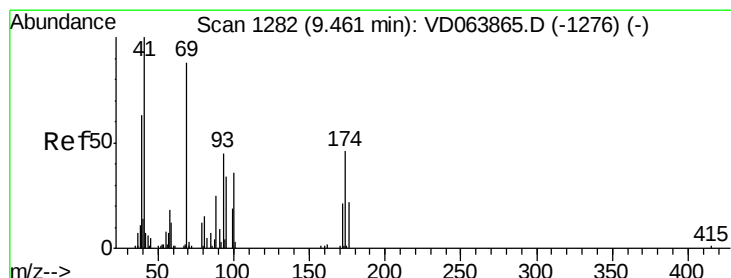
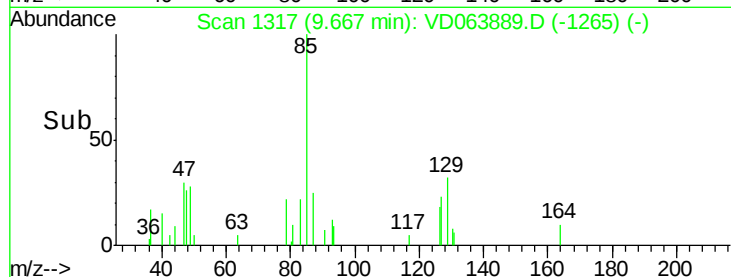
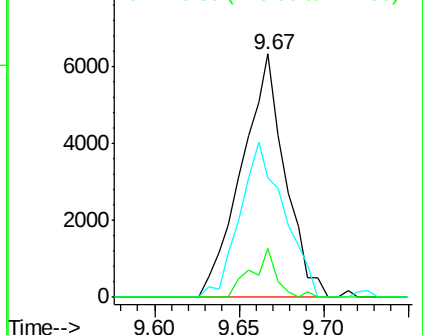
83 100

85 48.9 50.2 75.2#

127 20.0 7.6 11.4#



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: 3.914 ug/l

RT: 9.46 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

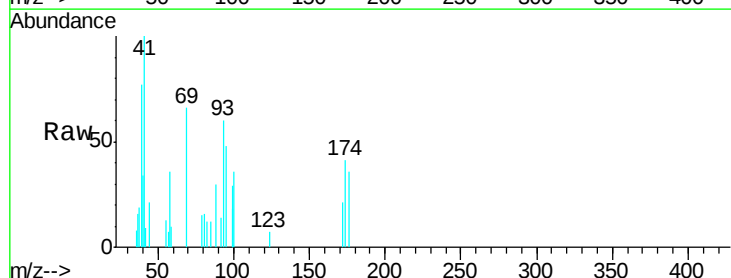
Tgt Ion: 41 Resp: 4389

Ion Ratio Lower Upper

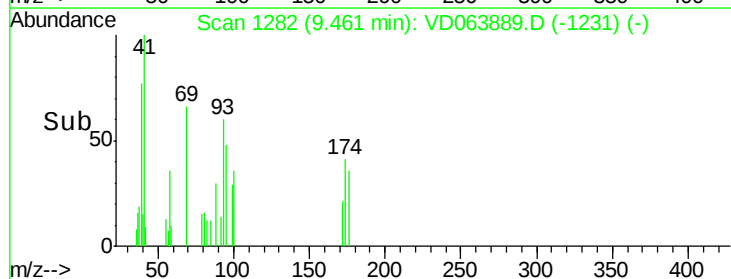
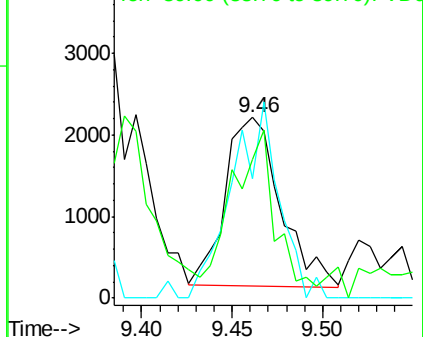
41 100

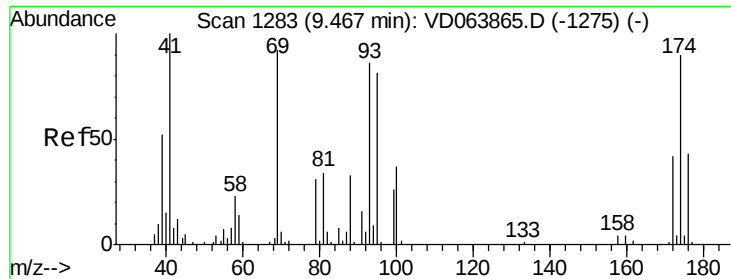
69 98.6 75.1 112.7

39 79.8 50.2 75.2#



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

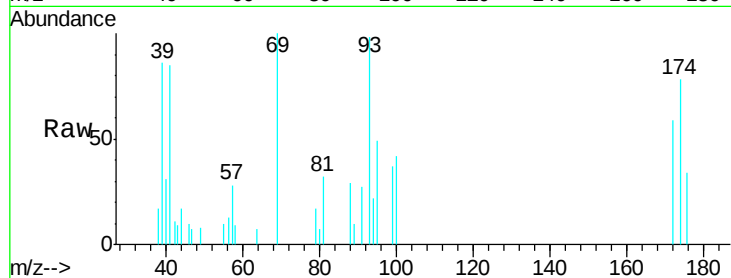




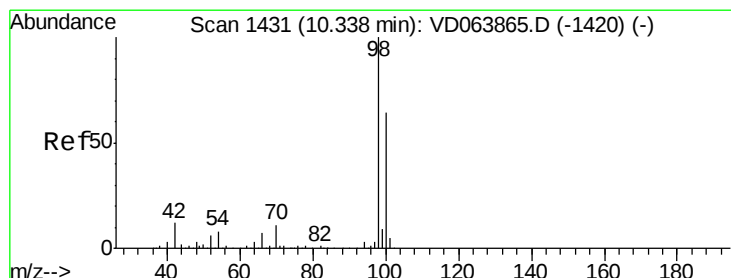
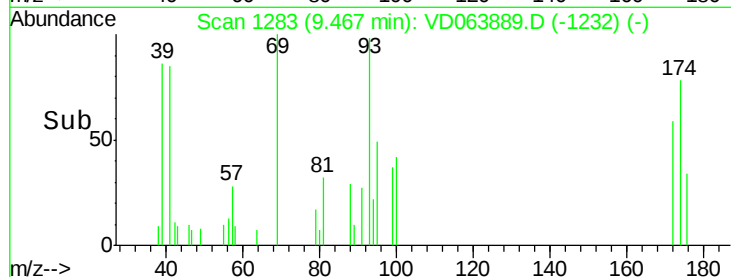
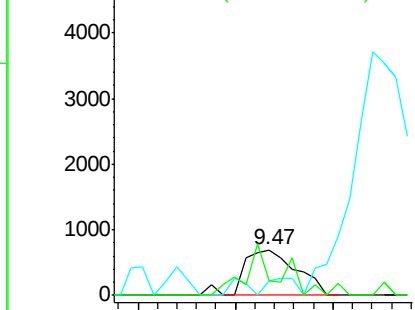
#49
1,4-Dioxane
Concen: 85.307 ug/l
RT: 9.47 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VD063889.D
Acq: 04 Oct 2019 17:11

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tgt Ion: 88 Resp: 1298
Ion Ratio Lower Upper
88 100
43 20.3 27.6 41.4#
58 49.1 54.1 81.1#

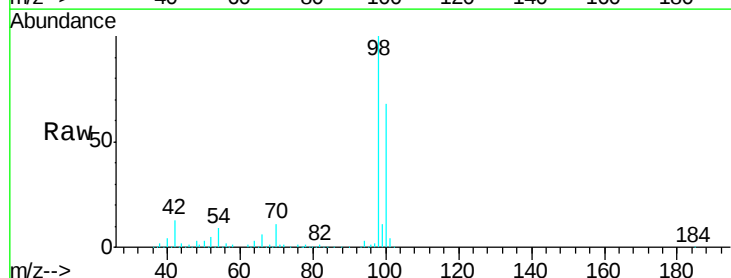


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC

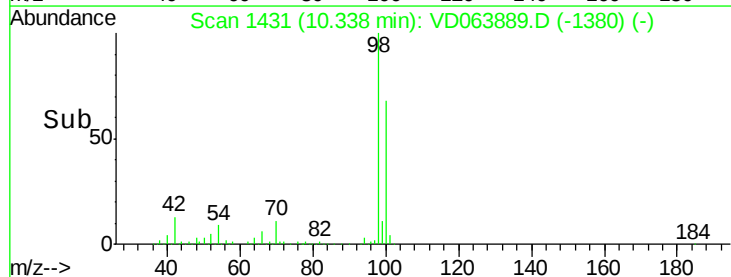
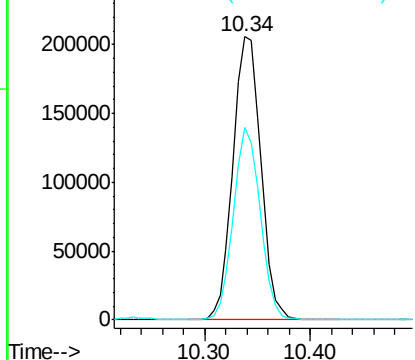


#50
Toluene-d8
Concen: 49.684 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. -0.00 min
Lab File: VD063889.D
Acq: 04 Oct 2019 17:11

Tgt Ion: 98 Resp: 376122
Ion Ratio Lower Upper
98 100
100 65.3 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VDC
Ion 100.00 (99.70 to 100.70): VDC

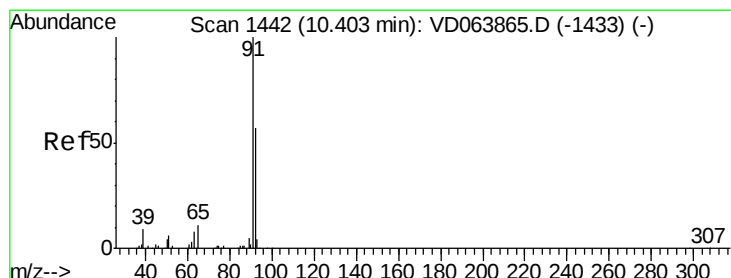
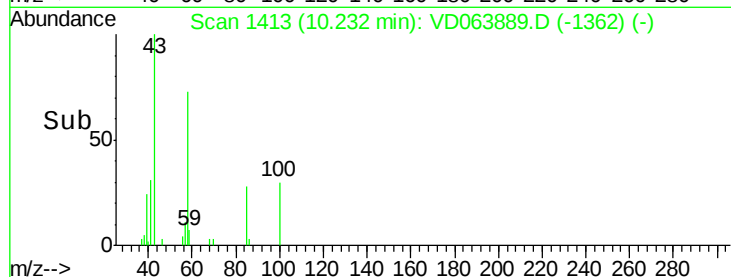
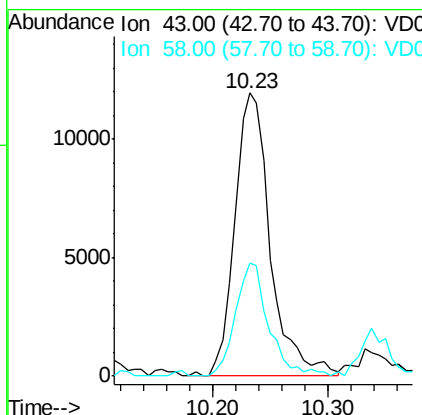
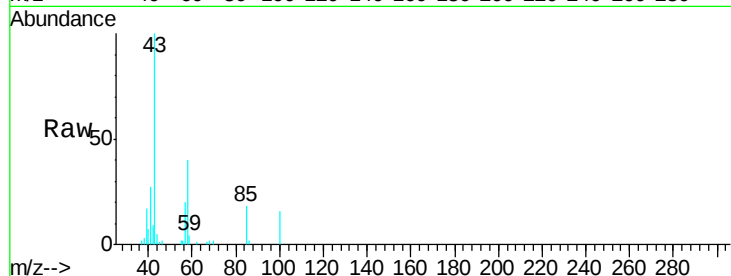




#51
 4-Methyl-2-Pentanone
 Concen: 20.978 ug/l
 RT: 10.23 min Scan# 1413
 Delta R.T. -0.00 min
 Lab File: VD063889.D
 Acq: 04 Oct 2019 17:11

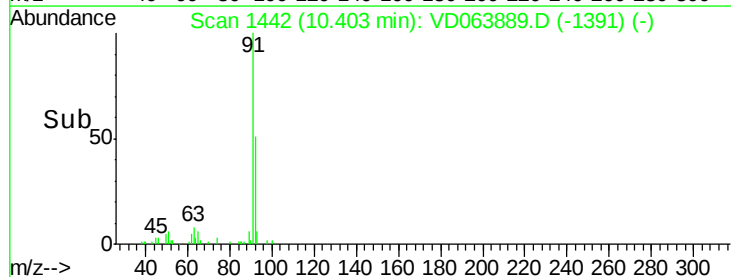
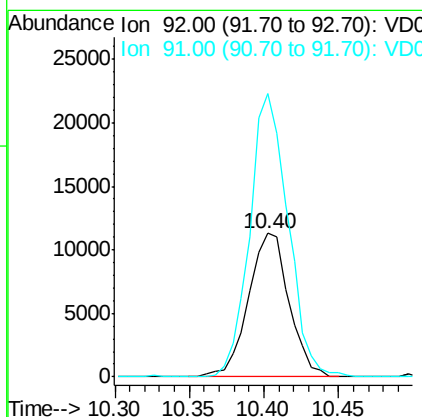
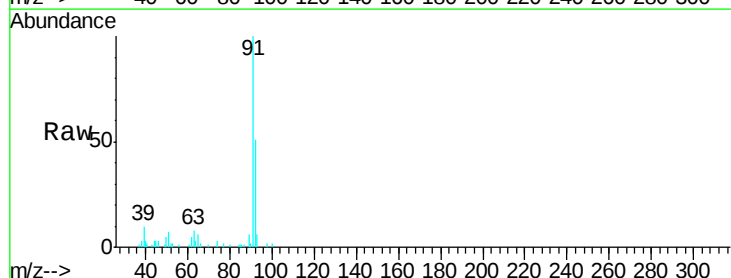
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

Tgt Ion: 43 Resp: 25460
 Ion Ratio Lower Upper
 43 100
 58 37.2 33.0 49.4



#52
 Toluene
 Concen: 3.877 ug/l
 RT: 10.40 min Scan# 1442
 Delta R.T. -0.00 min
 Lab File: VD063889.D
 Acq: 04 Oct 2019 17:11

Tgt Ion: 92 Resp: 21285
 Ion Ratio Lower Upper
 92 100
 91 185.7 139.5 209.3





#53

t-1,3-Dichloropropene

Concen: 3.808 ug/l

RT: 10.62 min Scan# 1479

Delta R.T. -0.00 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

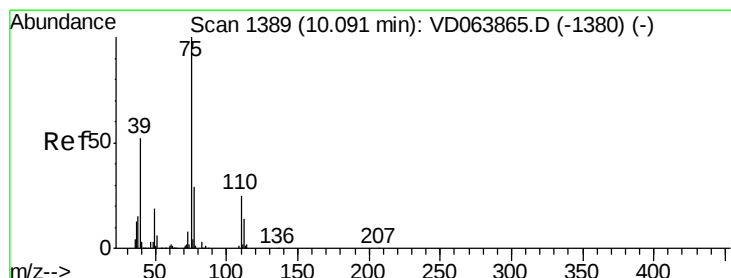
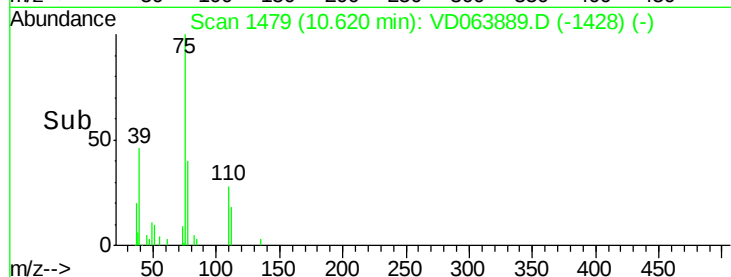
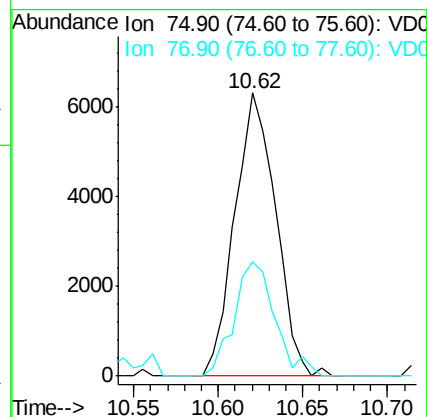
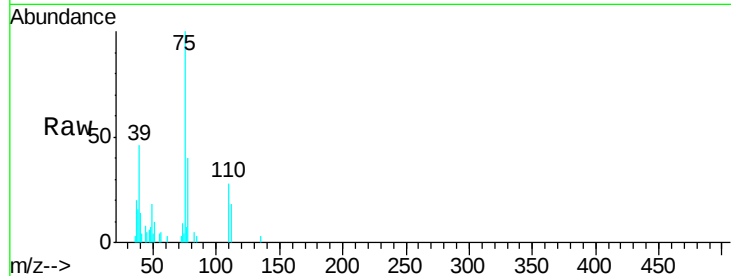
LOD-MDL-SOIL-01-QT4-2019

Tgt Ion: 75 Resp: 10665

Ion Ratio Lower Upper

75 100

77 40.4 22.8 34.2#



#54

cis-1,3-Dichloropropene

Concen: 3.545 ug/l

RT: 10.09 min Scan# 1389

Delta R.T. -0.00 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

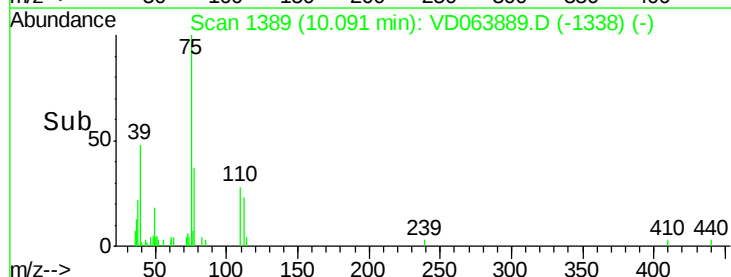
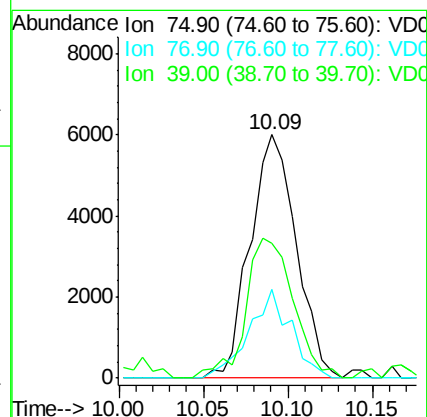
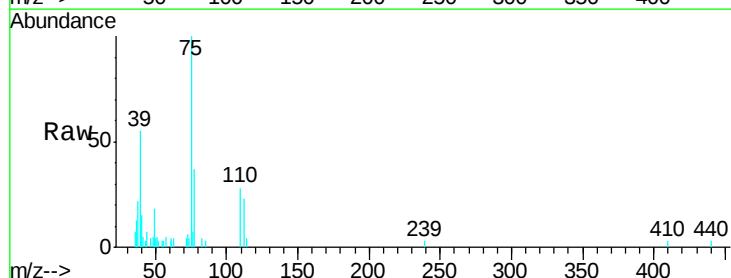
Tgt Ion: 75 Resp: 11427

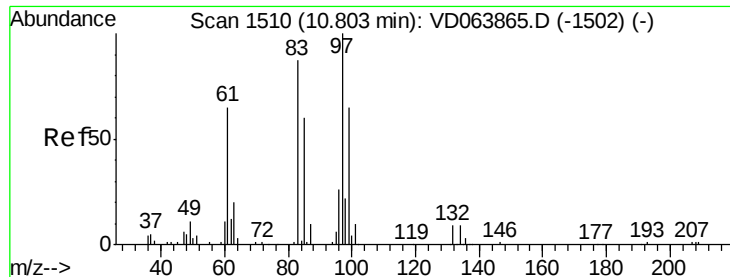
Ion Ratio Lower Upper

75 100

77 36.6 23.2 34.8#

39 55.2 41.5 62.3





#55

1,1,2-Trichloroethane

Concen: 3.830 ug/l

RT: 10.80 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

Instrument :

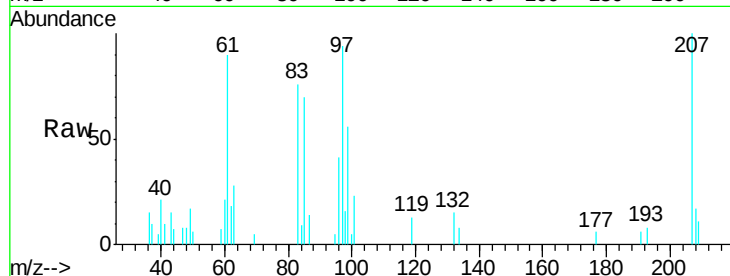
MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tgt Ion: 97 Resp: 6028

Ion	Ratio	Lower	Upper
97	100		
83	81.1	69.7	104.5
85	67.4	48.1	72.1
99	59.9	51.9	77.9

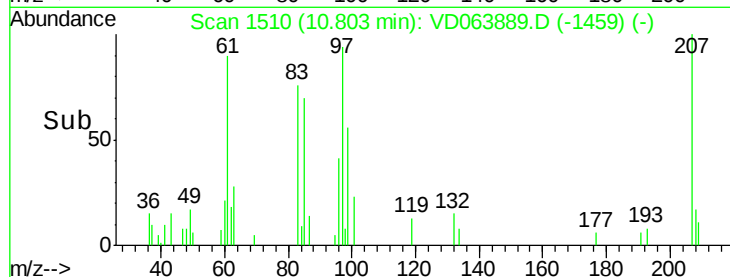


Abundance Ion 96.90 (96.60 to 97.60): VDC

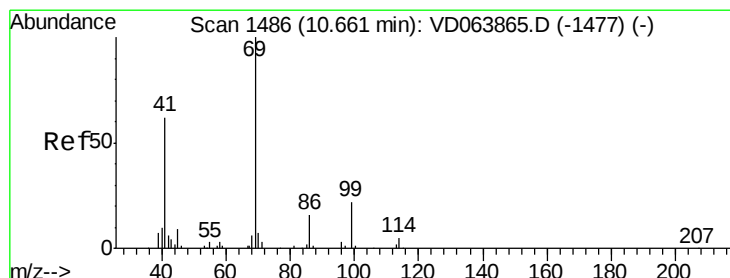
Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC



Time-->



#56

Ethyl methacrylate

Concen: 3.908 ug/l

RT: 10.67 min Scan# 1487

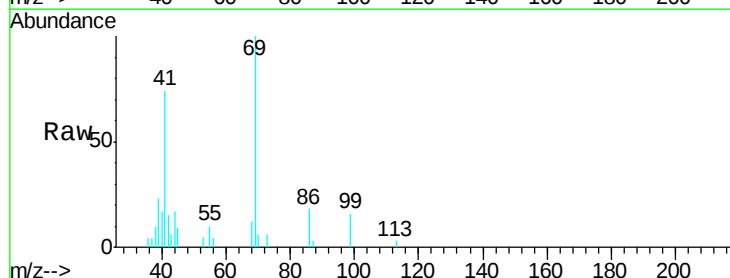
Delta R.T. 0.01 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

Tgt Ion: 69 Resp: 7790

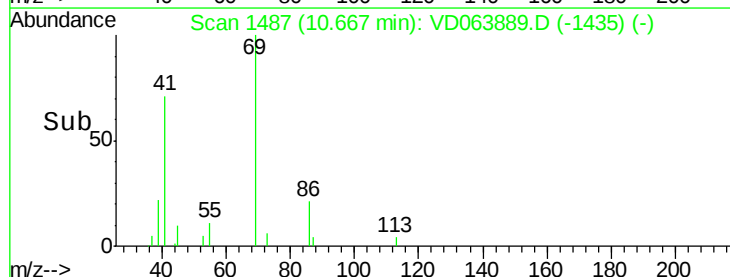
Ion	Ratio	Lower	Upper
69	100		
41	81.0	51.3	76.9#
39	40.6	28.0	42.0



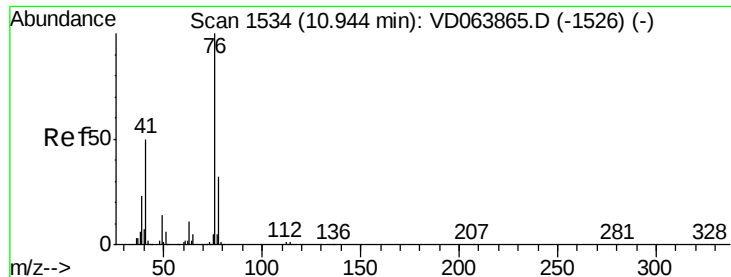
Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC



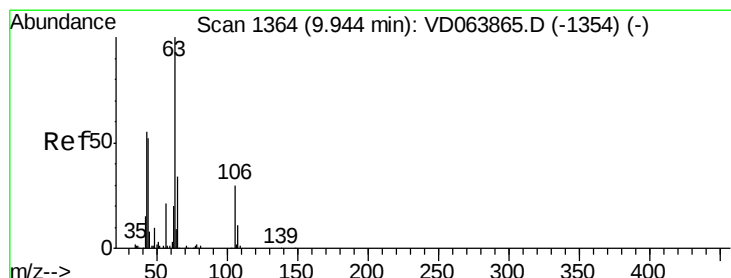
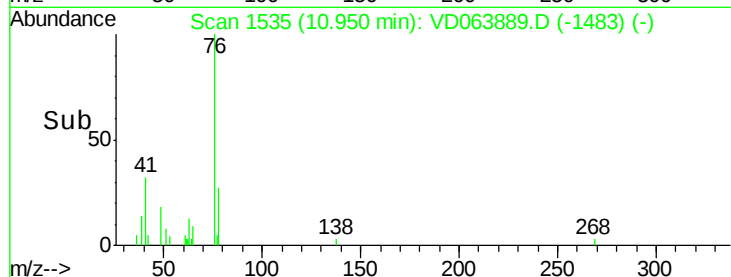
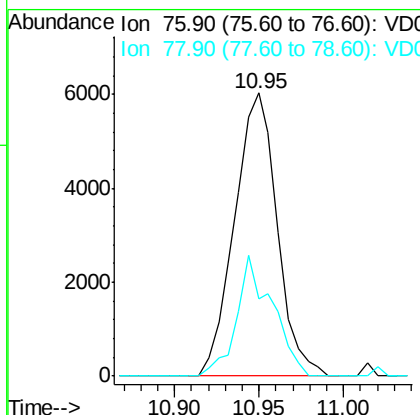
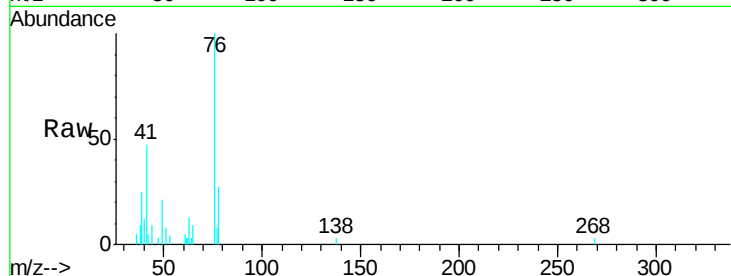
Time-->



#57
 1,3-Dichloropropane
 Concen: 3.931 ug/l
 RT: 10.95 min Scan# 1535
 Delta R.T. 0.01 min
 Lab File: VD063889.D
 Acq: 04 Oct 2019 17:11

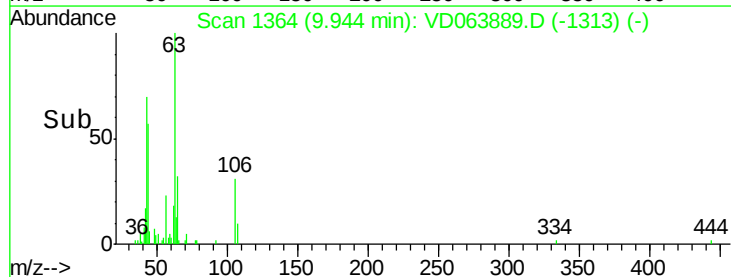
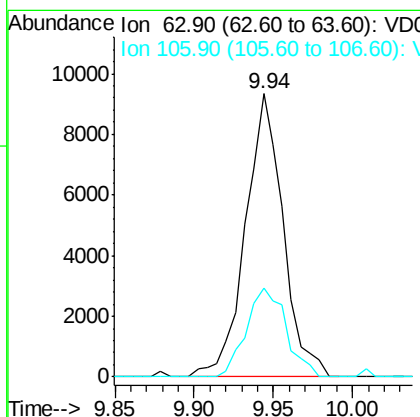
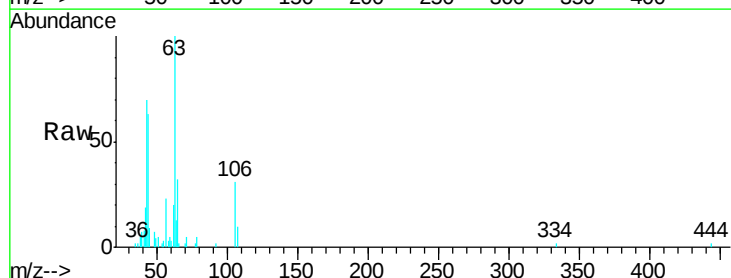
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

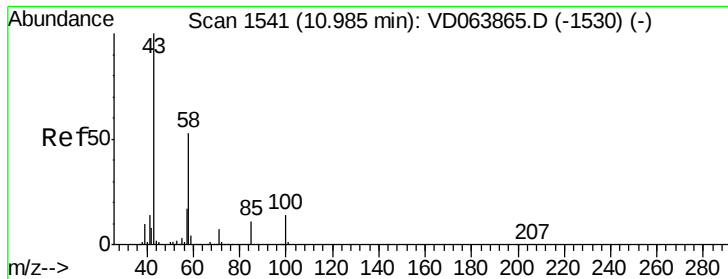
Tgt Ion: 76 Resp: 10586
 Ion Ratio Lower Upper
 76 100
 78 35.5 26.6 40.0



#58
 2-Chloroethyl Vinyl ether
 Concen: 18.012 ug/l
 RT: 9.94 min Scan# 1364
 Delta R.T. -0.00 min
 Lab File: VD063889.D
 Acq: 04 Oct 2019 17:11

Tgt Ion: 63 Resp: 15431
 Ion Ratio Lower Upper
 63 100
 106 33.2 24.3 36.5

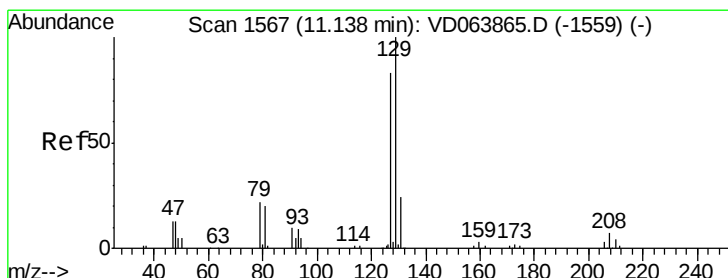
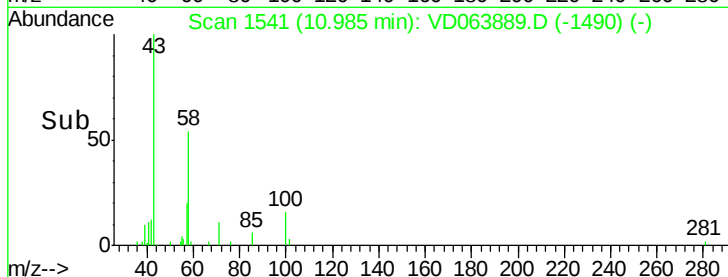
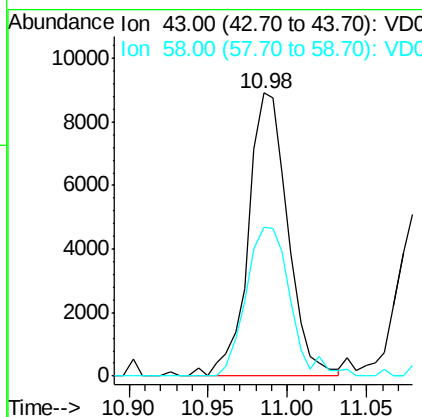
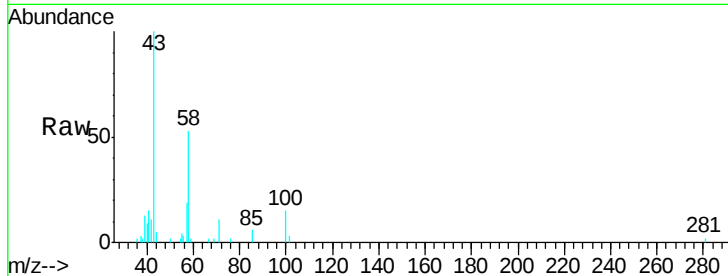




#59
2-Hexanone
Concen: 17.600 ug/l
RT: 10.98 min Scan# 1541
Delta R.T. -0.00 min
Lab File: VD063889.D
Acq: 04 Oct 2019 17:11

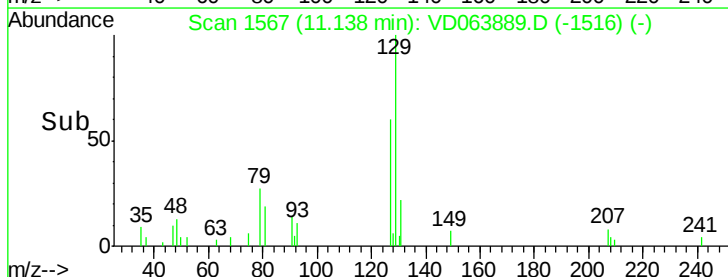
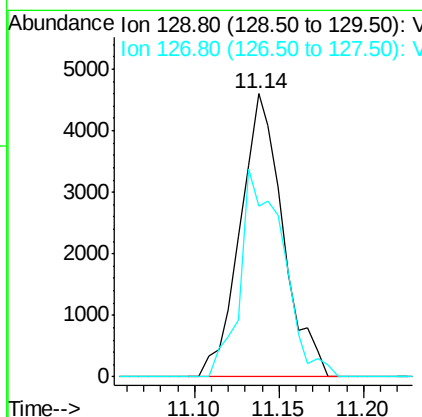
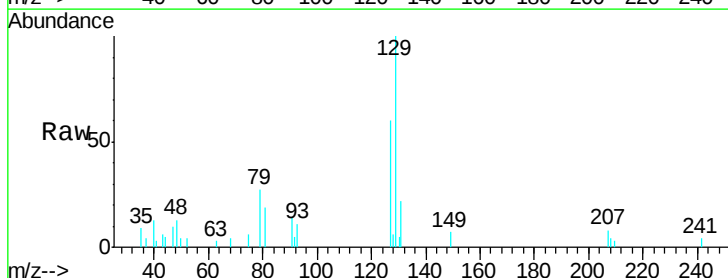
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

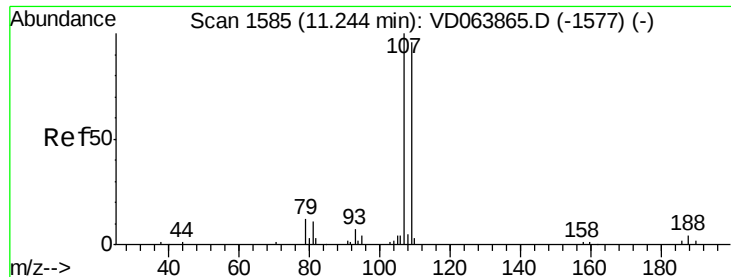
Tgt Ion: 43 Resp: 15452
Ion Ratio Lower Upper
43 100
58 58.7 27.7 83.0



#60
Dibromochloromethane
Concen: 3.964 ug/l
RT: 11.14 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VD063889.D
Acq: 04 Oct 2019 17:11

Tgt Ion: 129 Resp: 8122
Ion Ratio Lower Upper
129 100
127 72.9 39.9 119.6

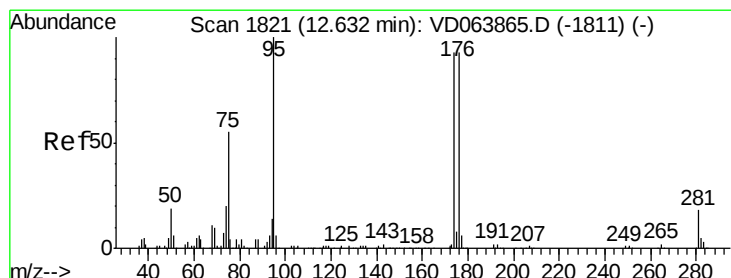
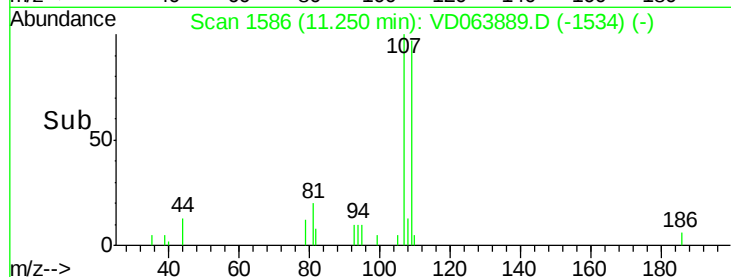
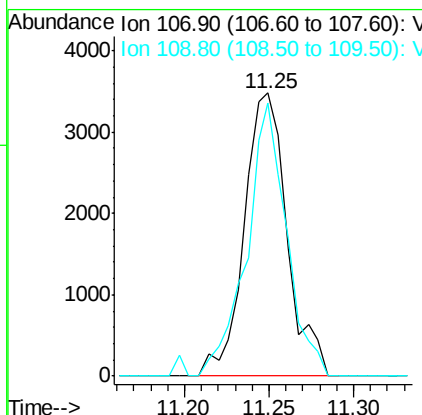
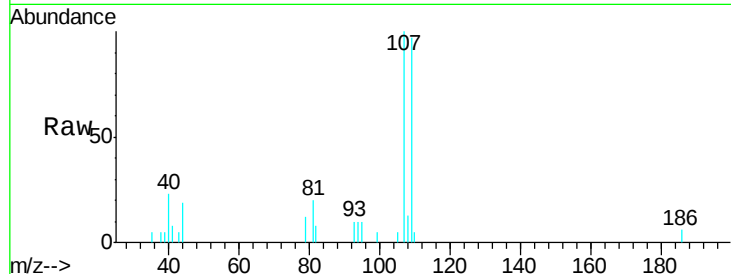




#61
 1,2-Dibromoethane
 Concen: 4.025 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. 0.01 min
 Lab File: VD063889.D
 Acq: 04 Oct 2019 17:11

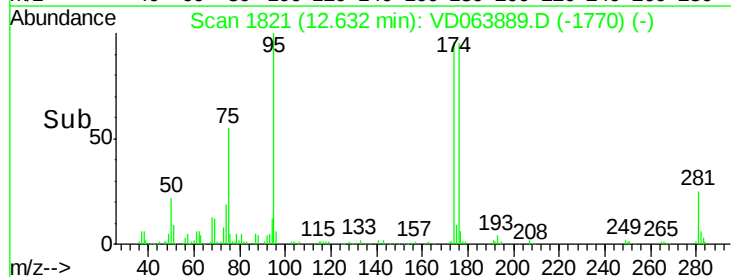
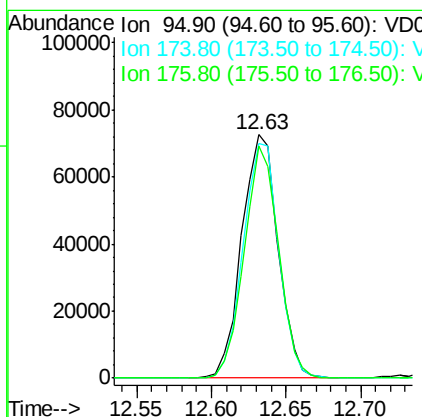
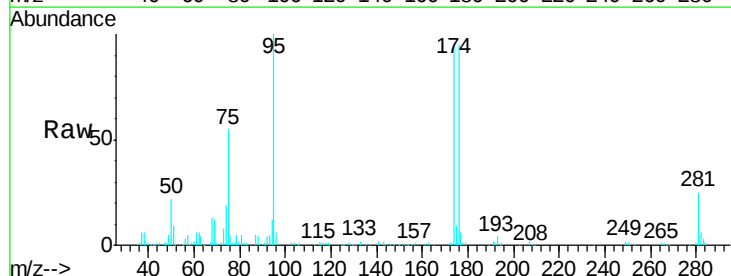
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

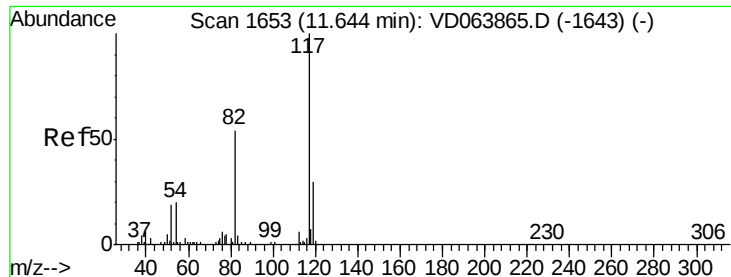
Tgt Ion: 107 Resp: 6141
 Ion Ratio Lower Upper
 107 100
 109 89.6 75.2 112.8



#62
 4-Bromofluorobenzene
 Concen: 46.318 ug/l
 RT: 12.63 min Scan# 1821
 Delta R.T. -0.00 min
 Lab File: VD063889.D
 Acq: 04 Oct 2019 17:11

Tgt Ion: 95 Resp: 121848
 Ion Ratio Lower Upper
 95 100
 174 94.3 0.0 186.4
 176 90.4 0.0 184.2

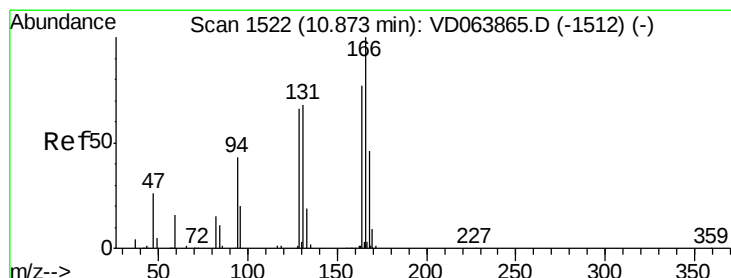
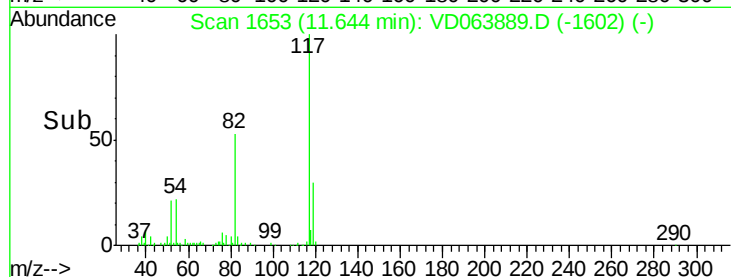
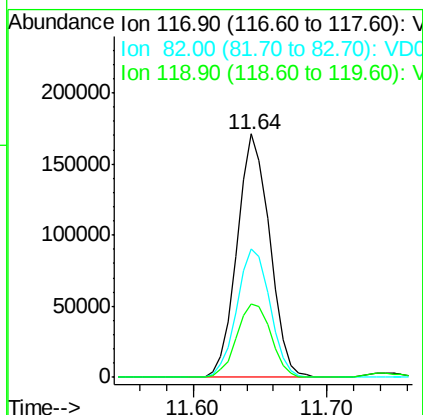
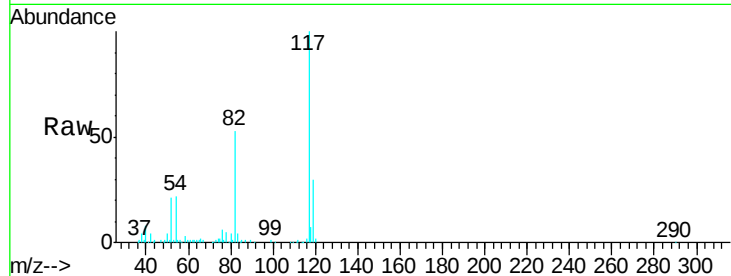




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD063889.D
Acq: 04 Oct 2019 17:11

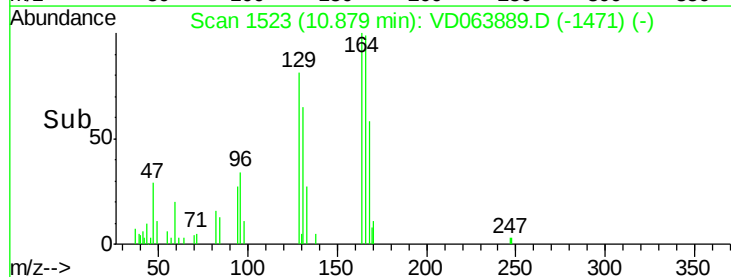
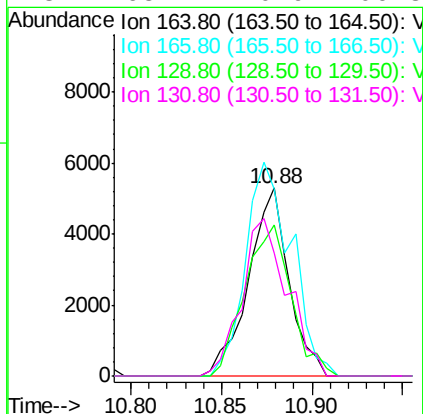
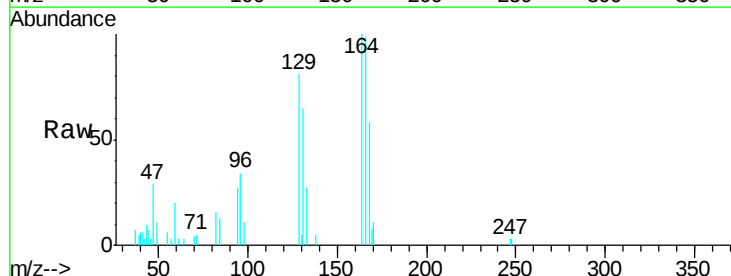
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

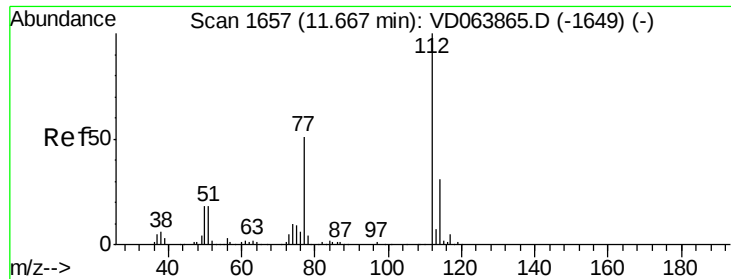
Tgt Ion:117 Resp: 289925
Ion Ratio Lower Upper
117 100
82 52.8 42.8 64.2
119 30.1 24.4 36.6



#64
Tetrachloroethene
Concen: 4.146 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.01 min
Lab File: VD063889.D
Acq: 04 Oct 2019 17:11

Tgt Ion:164 Resp: 8206
Ion Ratio Lower Upper
164 100
166 99.5 103.8 155.6#
129 80.8 68.9 103.3
131 65.2 70.9 106.3#





#65

Chlorobenzene

Concen: 4.235 ug/l

RT: 11.67 min Scan# 1658

Delta R.T. 0.01 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

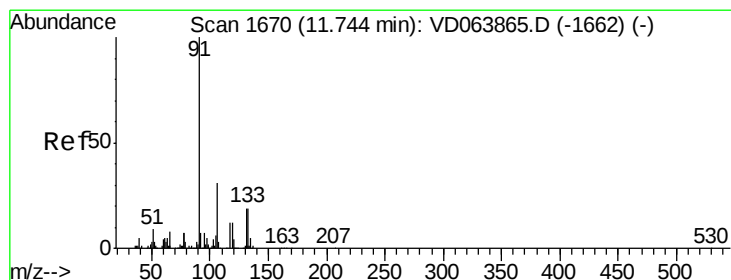
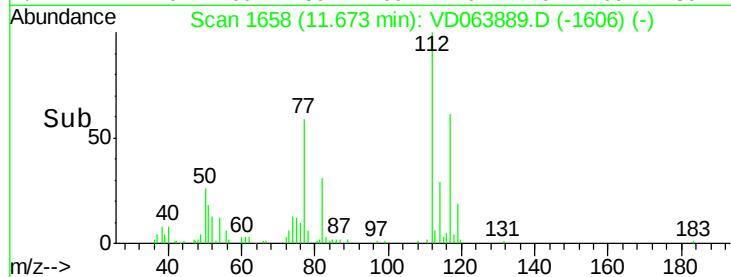
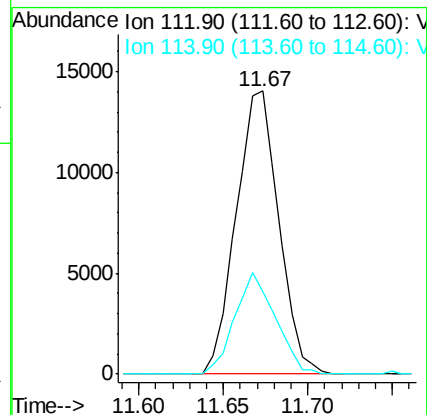
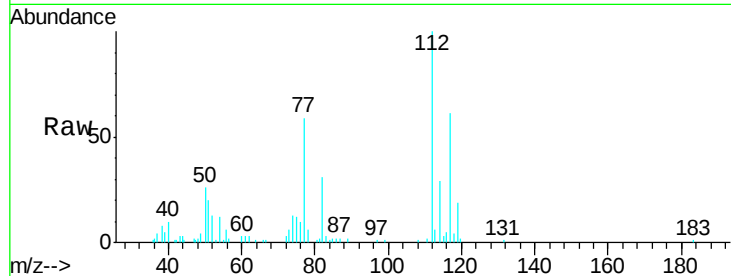
LOD-MDL-SOIL-01-QT4-2019

Tgt Ion:112 Resp: 24657

Ion Ratio Lower Upper

112 100

114 28.9 25.1 37.7



#66

1,1,1,2-Tetrachloroethane

Concen: 3.899 ug/l

RT: 11.74 min Scan# 1670

Delta R.T. -0.00 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

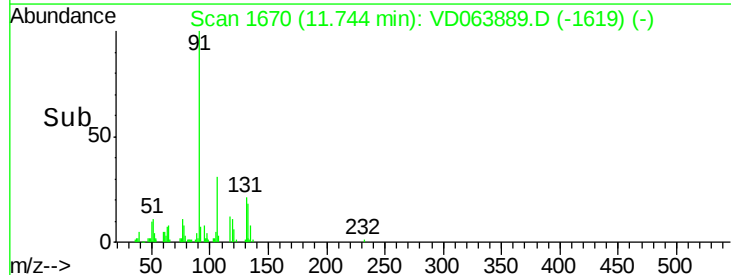
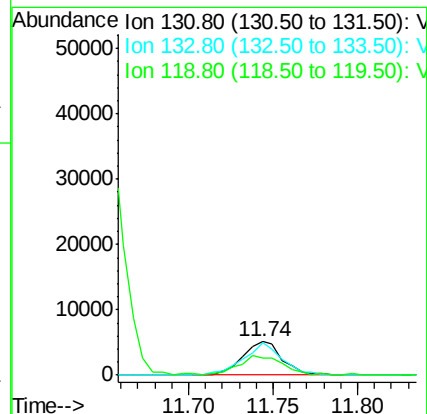
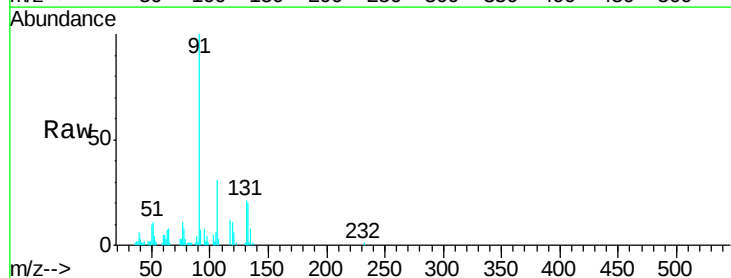
Tgt Ion:131 Resp: 8365

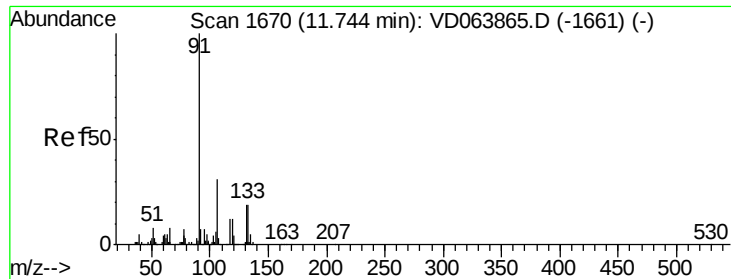
Ion Ratio Lower Upper

131 100

133 91.9 48.9 146.7

119 64.7 32.6 97.8





#67

Ethyl Benzene

Concen: 3.967 ug/l

RT: 11.74 min Scan# 1670

Delta R.T. -0.00 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

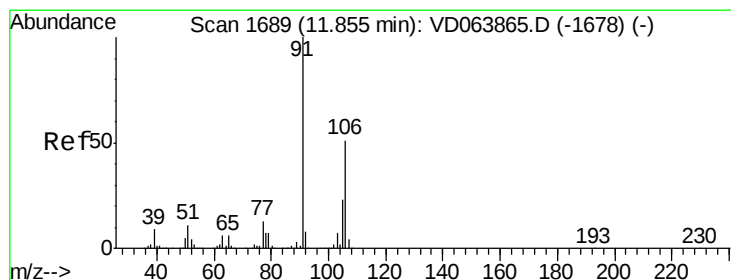
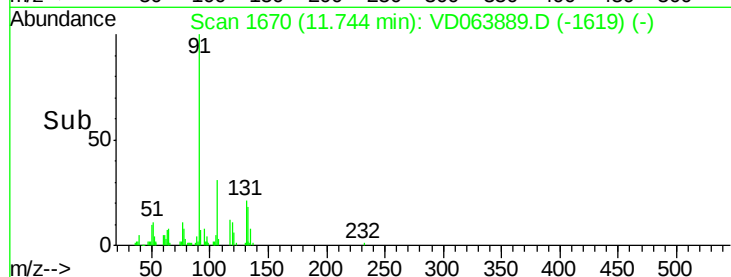
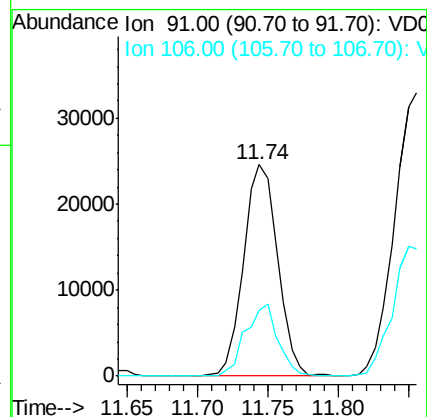
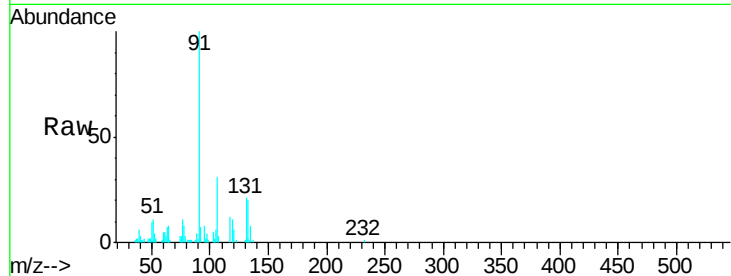
LOD-MDL-SOIL-01-QT4-2019

Tgt Ion: 91 Resp: 41645

Ion Ratio Lower Upper

91 100

106 31.4 24.6 37.0



#68

m/p-Xylenes

Concen: 7.543 ug/l

RT: 11.85 min Scan# 1688

Delta R.T. -0.01 min

Lab File: VD063889.D

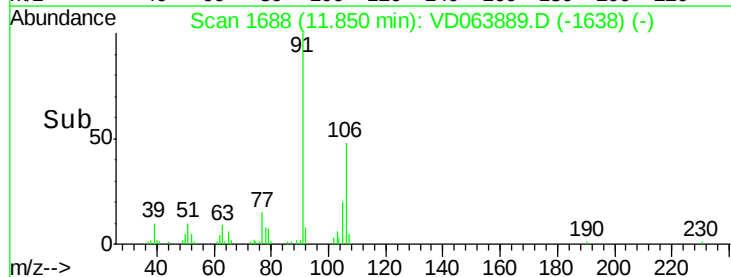
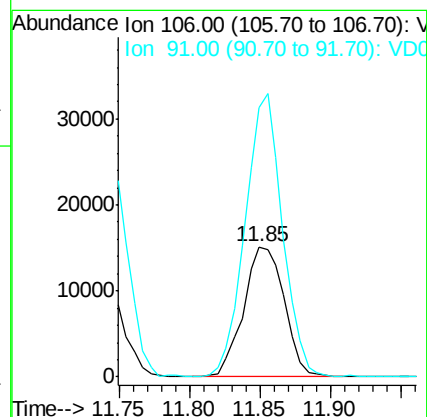
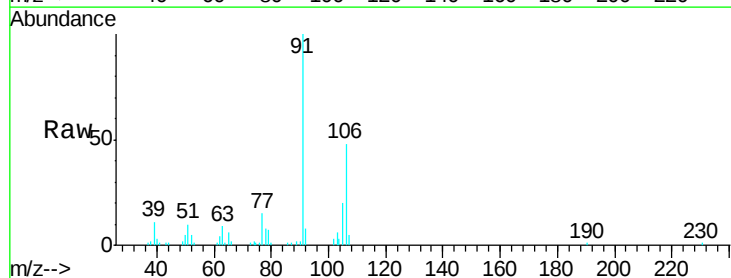
Acq: 04 Oct 2019 17:11

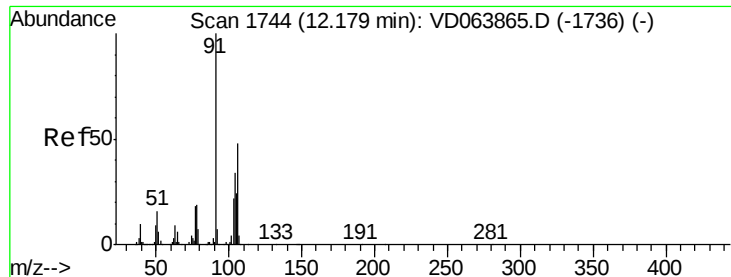
Tgt Ion: 106 Resp: 30567

Ion Ratio Lower Upper

106 100

91 199.4 154.8 232.2

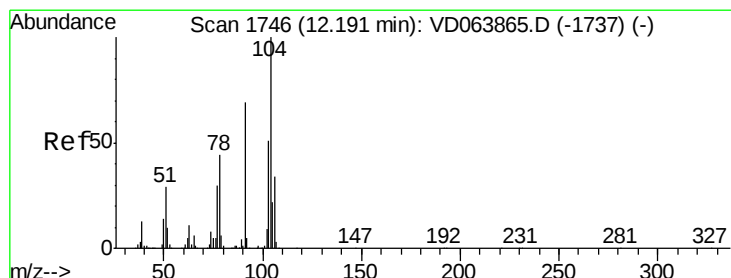
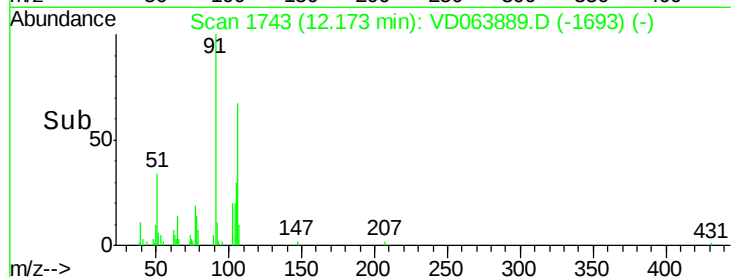
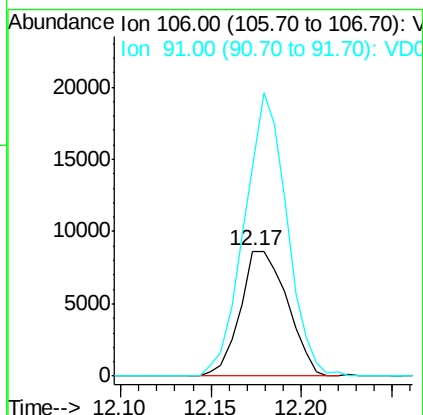
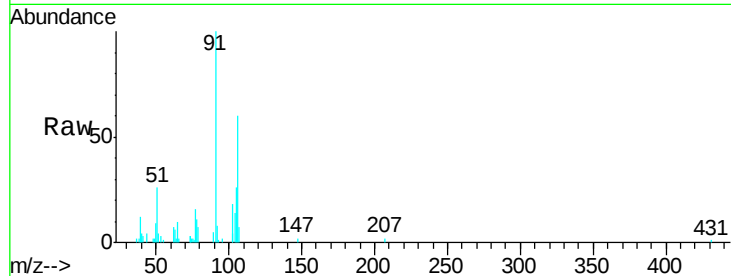




#69
o-Xylene
Concen: 4.021 ug/l
RT: 12.17 min Scan# 1743
Delta R.T. -0.01 min
Lab File: VD063889.D
Acq: 04 Oct 2019 17:11

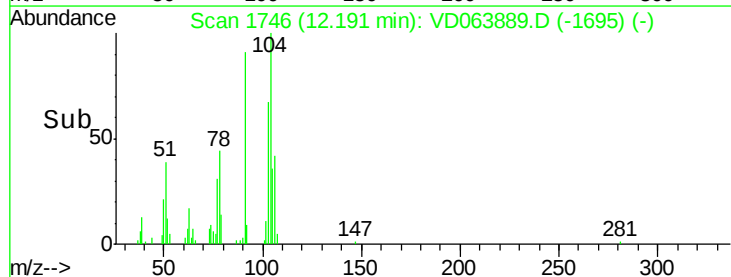
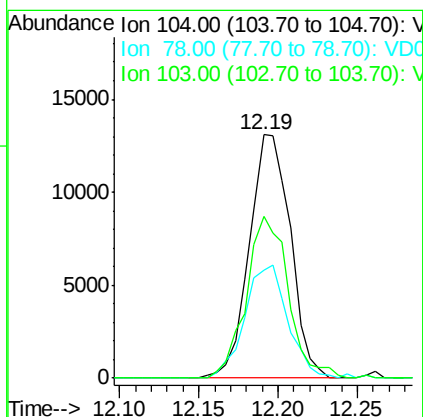
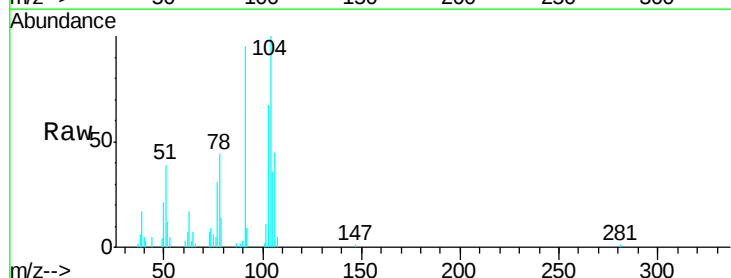
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

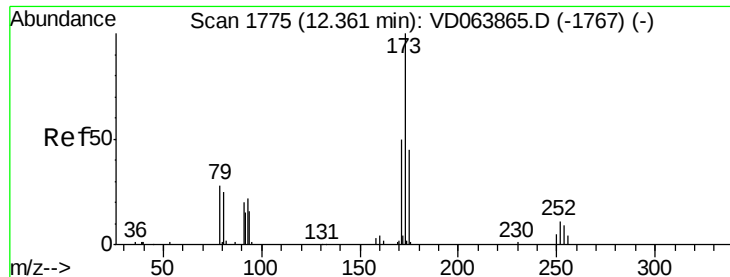
Tgt Ion:106 Resp: 15601
Ion Ratio Lower Upper
106 100
91 205.5 103.9 311.7



#70
Styrene
Concen: 3.595 ug/l
RT: 12.19 min Scan# 1746
Delta R.T. -0.00 min
Lab File: VD063889.D
Acq: 04 Oct 2019 17:11

Tgt Ion:104 Resp: 23615
Ion Ratio Lower Upper
104 100
78 48.6 37.0 55.4
103 68.0 44.2 66.4#





#71

Bromoform

Concen: 4.026 ug/l

RT: 12.36 min Scan# 1775

Delta R.T. -0.00 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

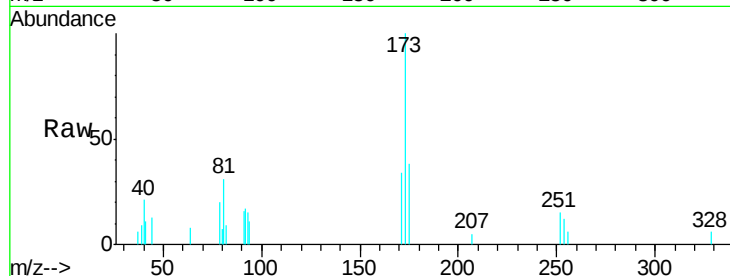
Tgt Ion:173 Resp: 4636

Ion Ratio Lower Upper

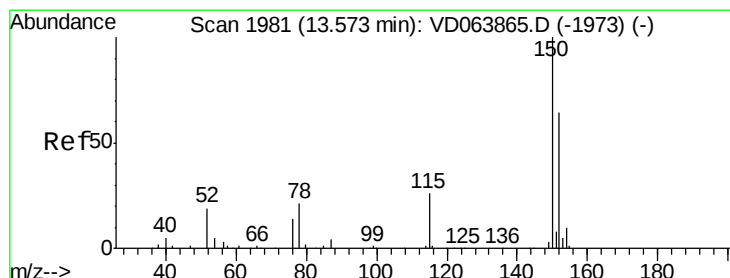
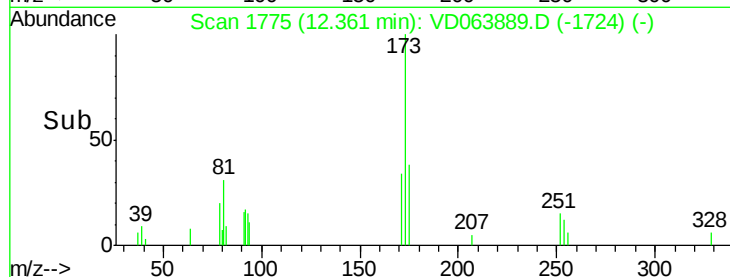
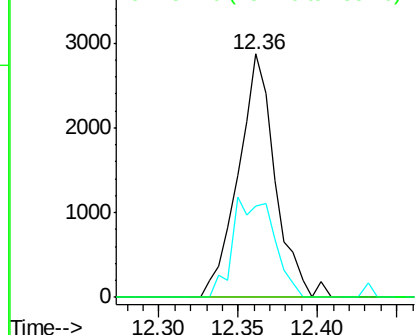
173 100

175 45.4 24.6 74.0

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: 13.57 min Scan# 1981

Delta R.T. -0.00 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

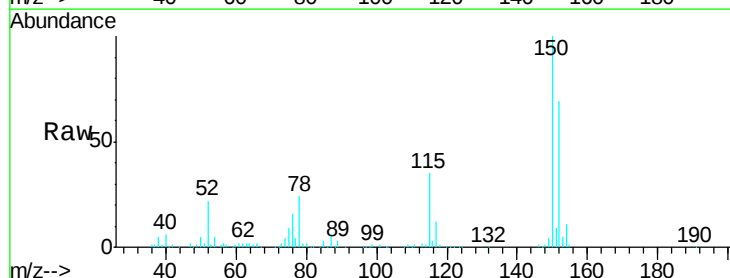
Tgt Ion:152 Resp: 146674

Ion Ratio Lower Upper

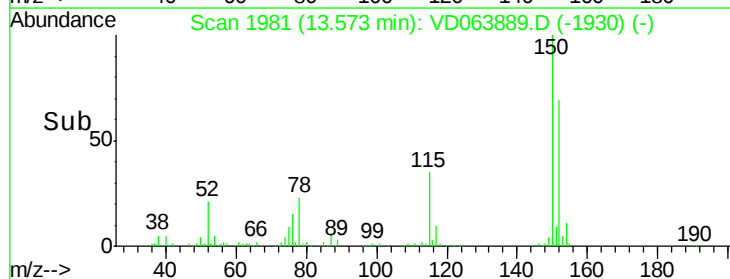
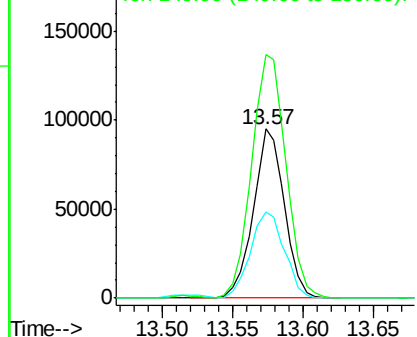
152 100

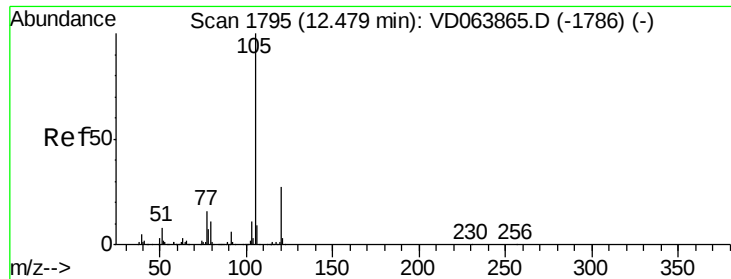
115 55.6 25.9 77.7

150 158.8 0.0 344.2



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: 3.938 ug/l

RT: 12.48 min Scan# 1795

Delta R.T. -0.00 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

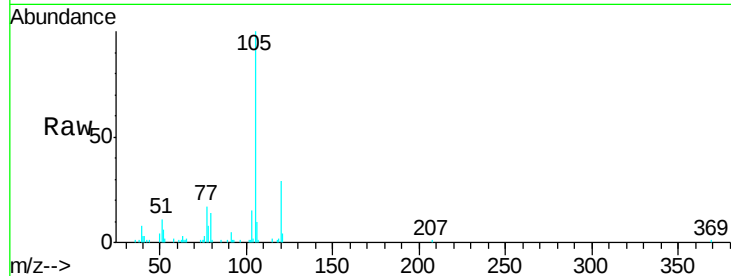
LOD-MDL-SOIL-01-QT4-2019

Tgt Ion: 105 Resp: 38834

Ion Ratio Lower Upper

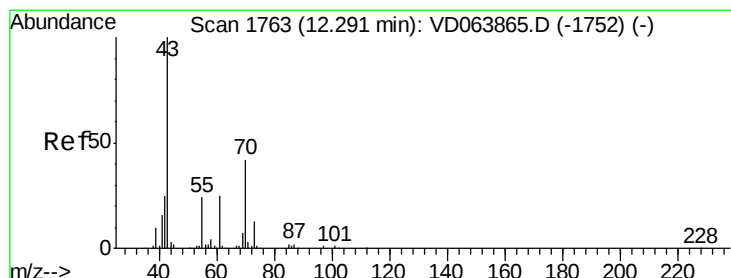
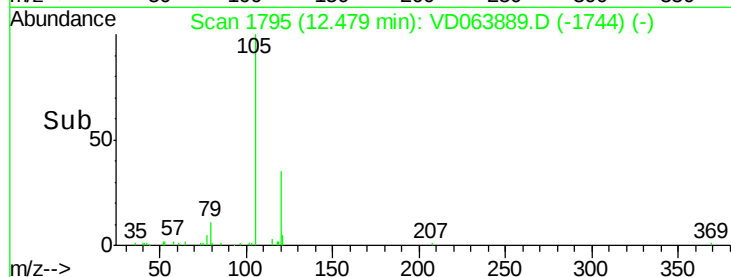
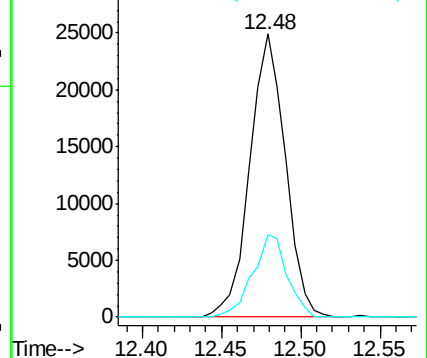
105 100

120 28.1 13.3 39.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 4.509 ug/l

RT: 12.29 min Scan# 1763

Delta R.T. -0.00 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

Tgt Ion: 43 Resp: 9573

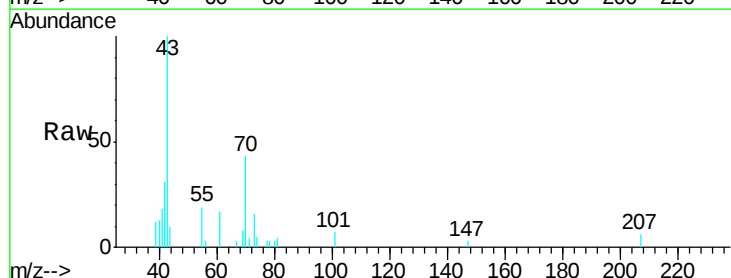
Ion Ratio Lower Upper

43 100

70 42.0 35.8 53.6

55 25.1 19.4 29.0

61 21.2 20.4 30.6

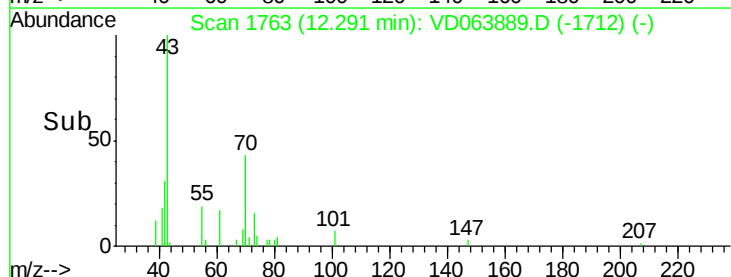
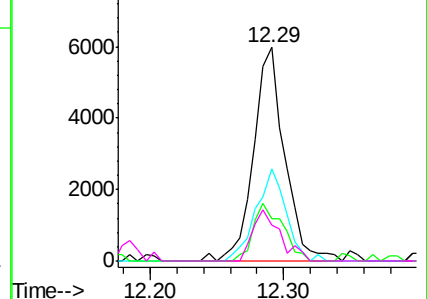


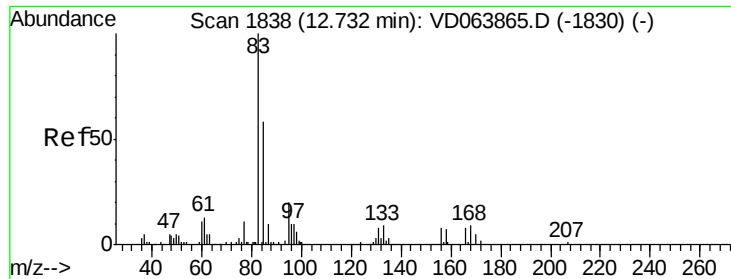
Abundance Ion 43.00 (42.70 to 43.70): V

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





#75

1,1,2,2-Tetrachloroethane

Concen: 3.885 ug/l

RT: 12.73 min Scan# 1838

Delta R.T. -0.00 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

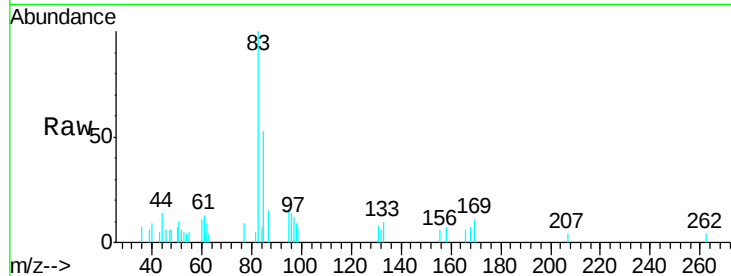
Tgt Ion: 83 Resp: 6666

Ion Ratio Lower Upper

83 100

131 9.8 5.6 16.8

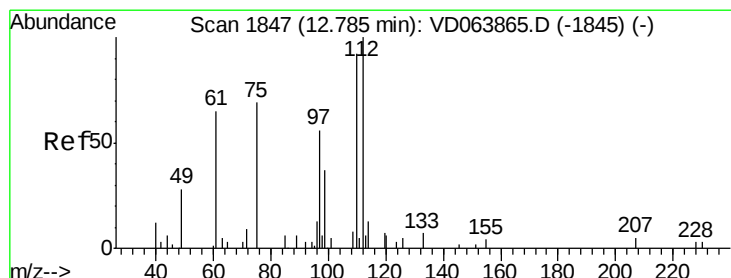
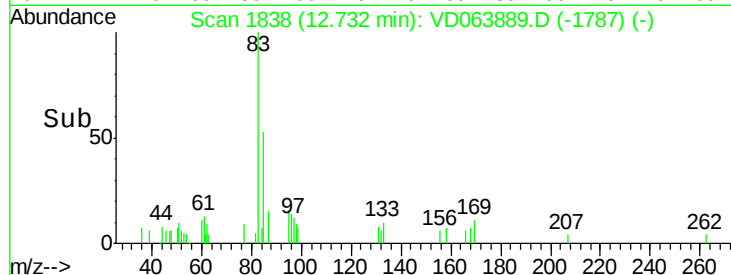
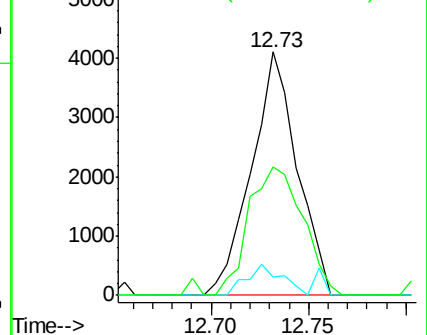
85 62.5 32.3 96.8



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



#76

1,2,3-Trichloropropane

Concen: 8.884 ug/l

RT: 12.79 min Scan# 1848

Delta R.T. 0.01 min

Lab File: VD063889.D

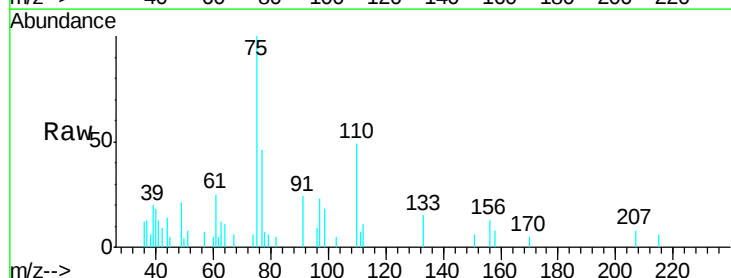
Acq: 04 Oct 2019 17:11

Tgt Ion: 75 Resp: 8727

Ion Ratio Lower Upper

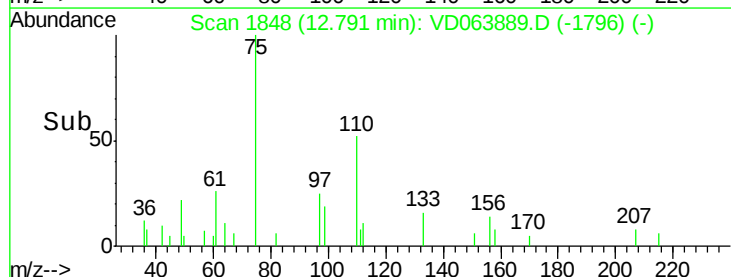
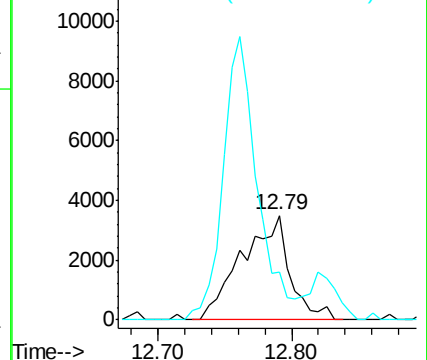
75 100

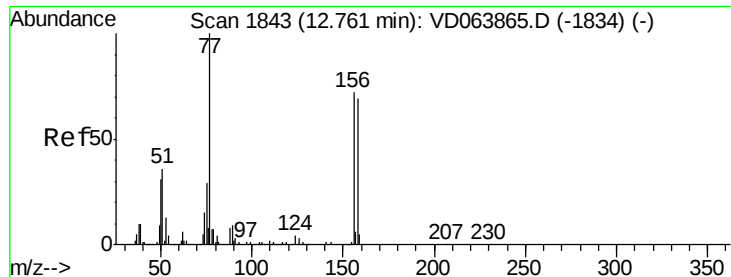
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#77

Bromobenzene

Concen: 4.402 ug/l

RT: 12.76 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

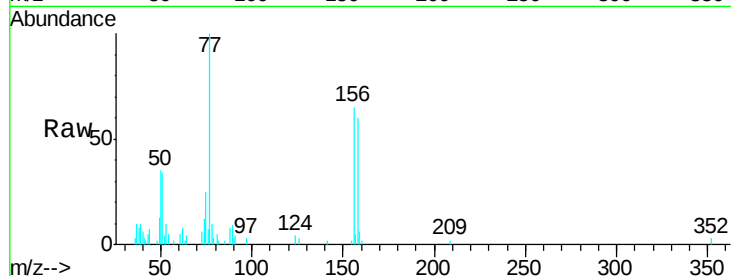
Tgt Ion:156 Resp: 10815

Ion Ratio Lower Upper

156 100

77 157.2 80.3 241.0

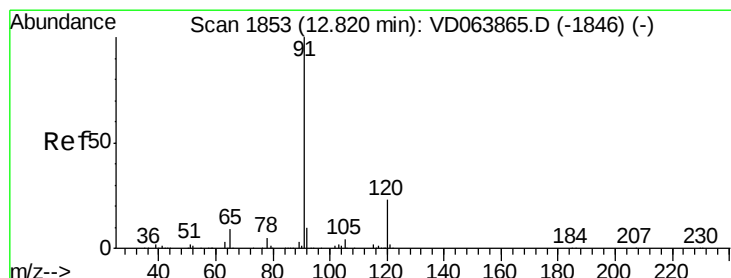
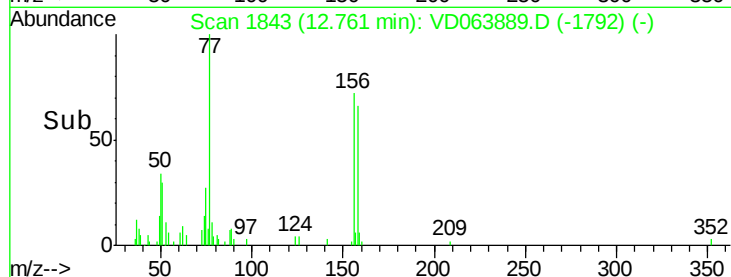
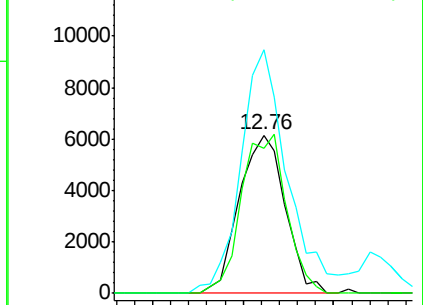
158 99.2 47.4 142.2



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: 3.971 ug/l

RT: 12.82 min Scan# 1853

Delta R.T. -0.00 min

Lab File: VD063889.D

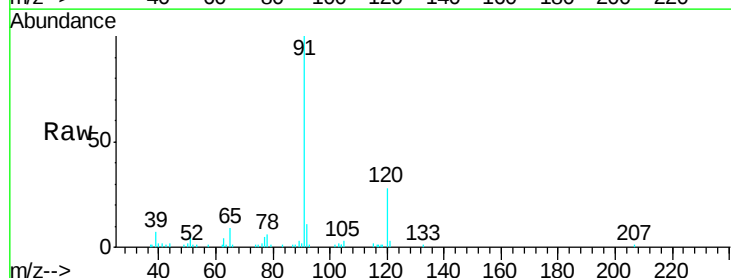
Acq: 04 Oct 2019 17:11

Tgt Ion: 91 Resp: 45963

Ion Ratio Lower Upper

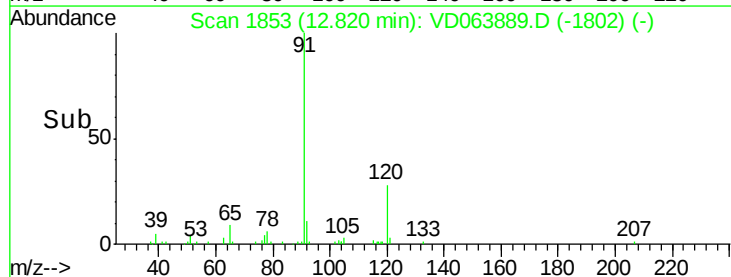
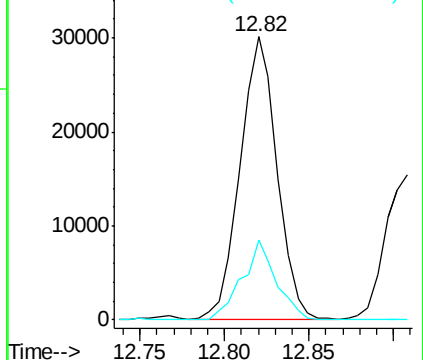
91 100

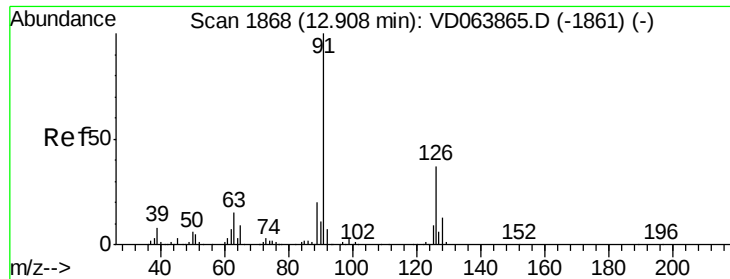
120 25.9 12.0 36.0



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V

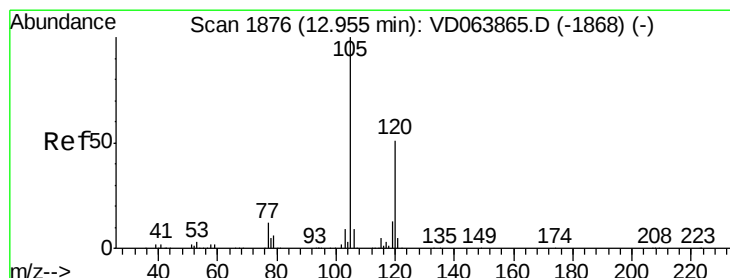
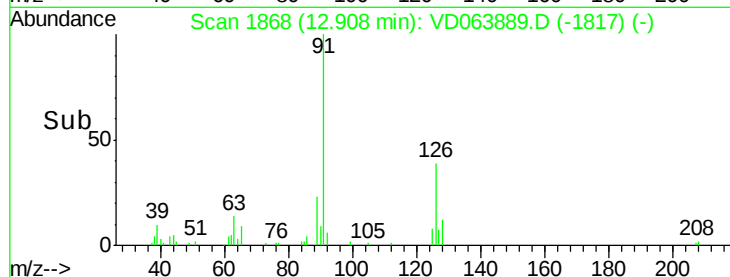
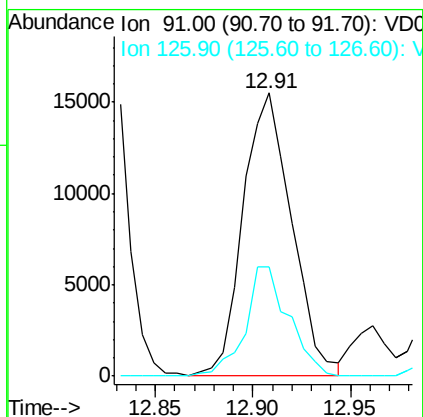
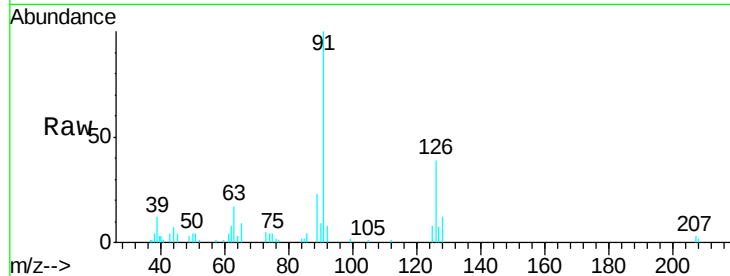




#79
2-Chlorotoluene
Concen: 4.191 ug/l
RT: 12.91 min Scan# 1868
Delta R.T. -0.00 min
Lab File: VD063889.D
Acq: 04 Oct 2019 17:11

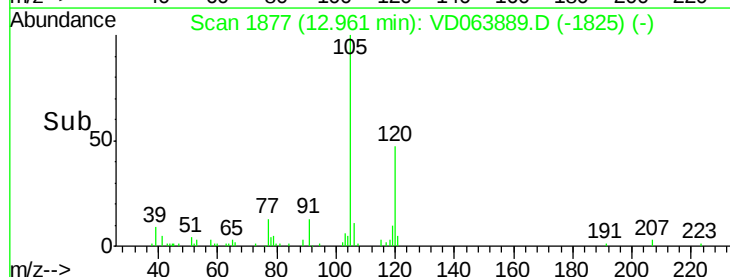
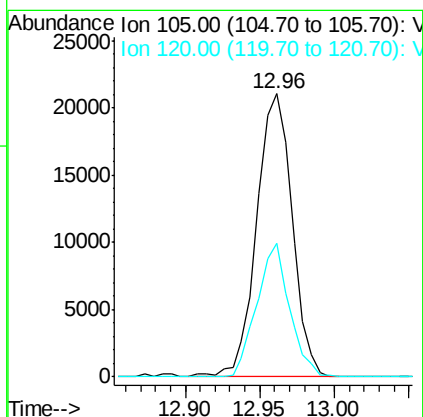
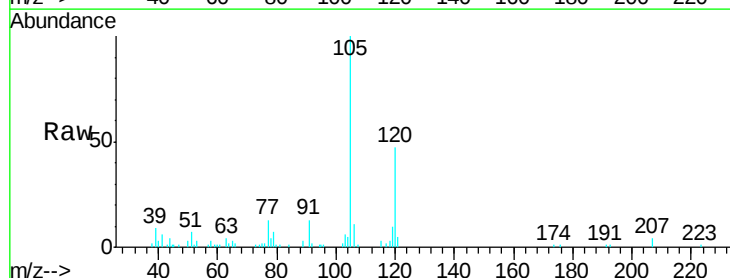
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

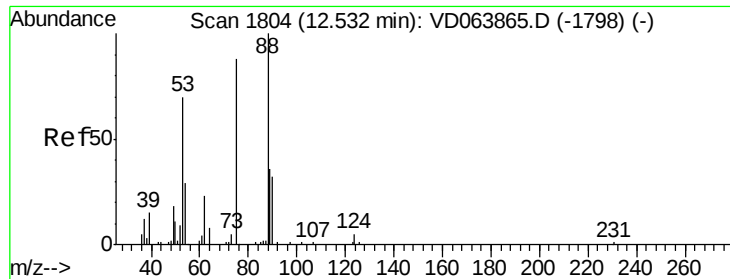
Tgt Ion: 91 Resp: 26744
Ion Ratio Lower Upper
91 100
126 34.6 18.4 55.2



#80
1,3,5-Trimethylbenzene
Concen: 4.205 ug/l
RT: 12.96 min Scan# 1877
Delta R.T. 0.01 min
Lab File: VD063889.D
Acq: 04 Oct 2019 17:11

Tgt Ion: 105 Resp: 34590
Ion Ratio Lower Upper
105 100
120 43.7 25.9 77.8

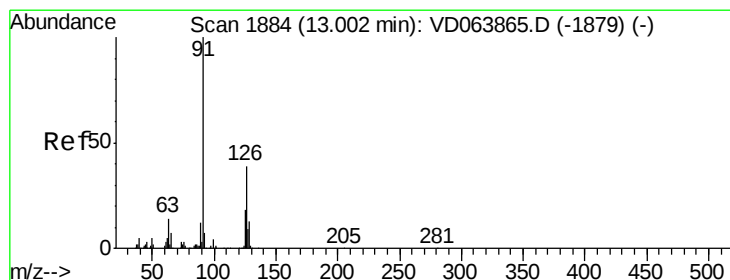
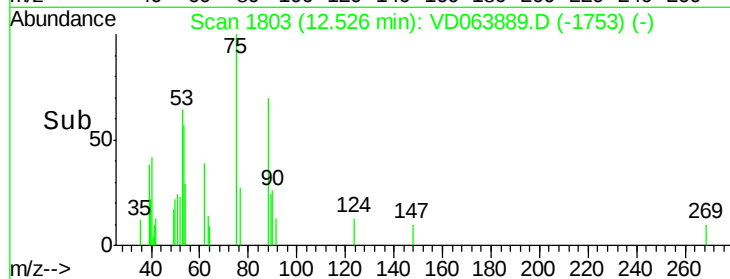
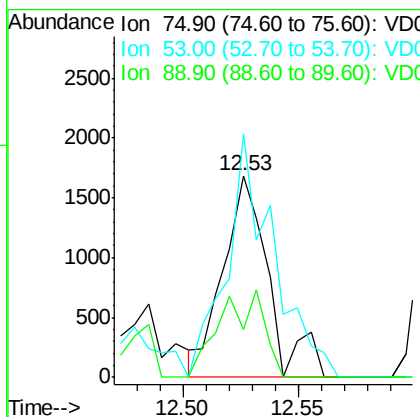
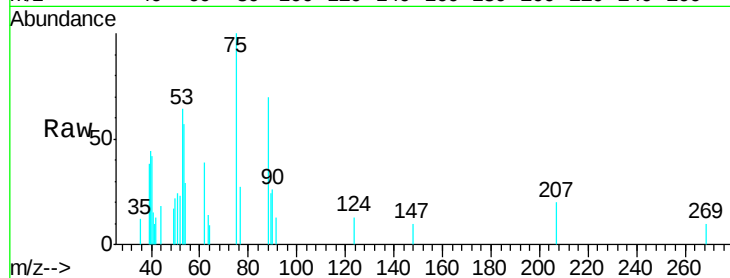




#81
trans-1,4-Dichloro-2-butene
Concen: 4.150 ug/l
RT: 12.53 min Scan# 1803
Delta R.T. -0.01 min
Lab File: VD063889.D
Acq: 04 Oct 2019 17:11

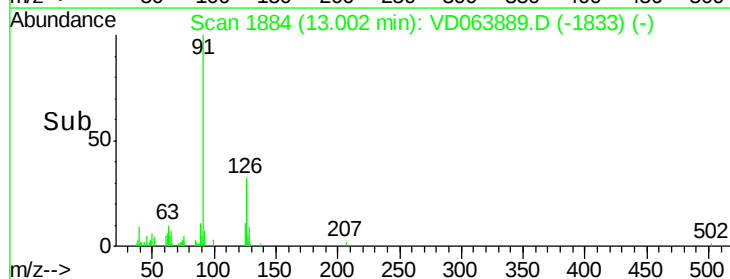
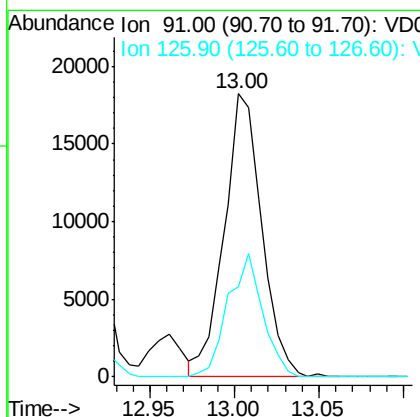
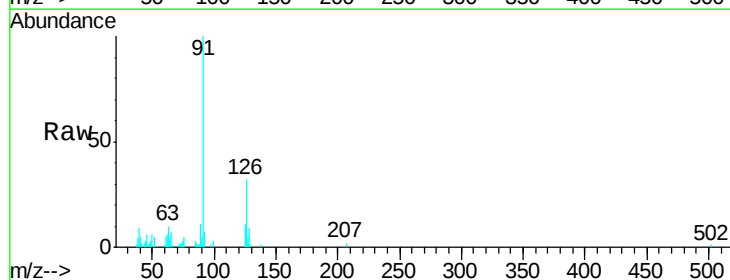
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

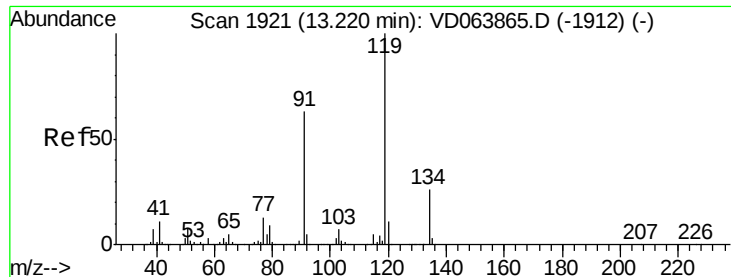
Tgt Ion: 75 Resp: 2304
Ion Ratio Lower Upper
75 100
53 124.5 75.0 112.6#
89 41.4 38.2 57.4



#82
4-Chlorotoluene
Concen: 4.158 ug/l
RT: 13.00 min Scan# 1884
Delta R.T. -0.00 min
Lab File: VD063889.D
Acq: 04 Oct 2019 17:11

Tgt Ion: 91 Resp: 28150
Ion Ratio Lower Upper
91 100
126 40.4 18.6 55.8

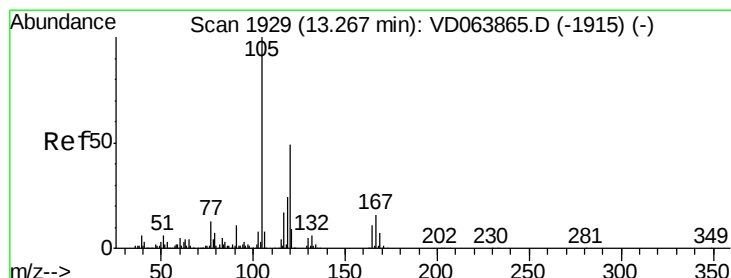
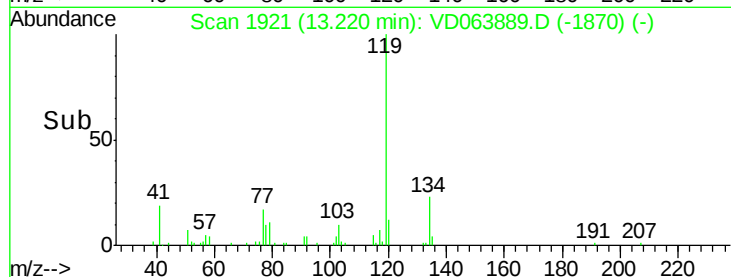
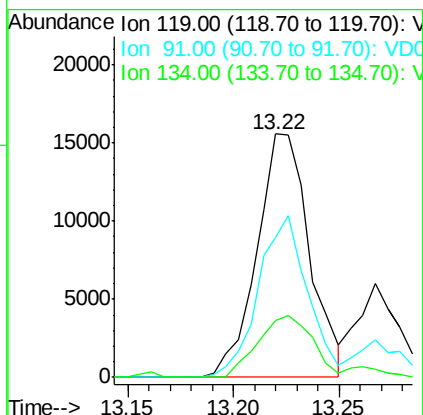
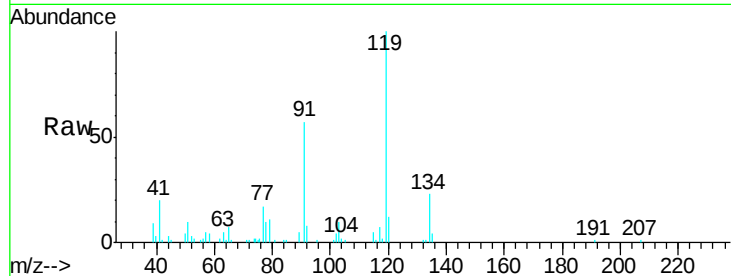




#83
tert-Butylbenzene
Concen: 3.695 ug/l
RT: 13.22 min Scan# 1921
Delta R.T. -0.00 min
Lab File: VD063889.D
Acq: 04 Oct 2019 17:11

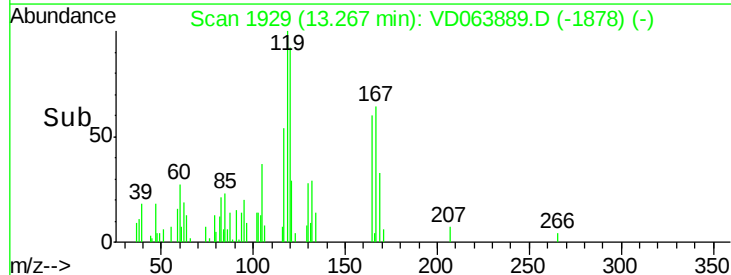
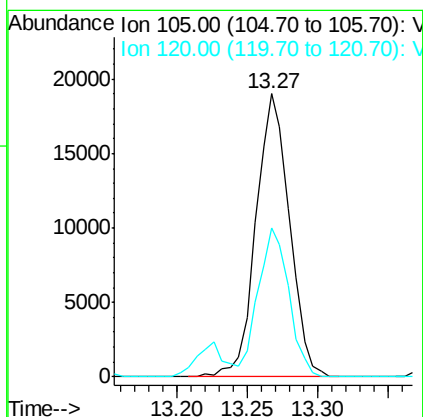
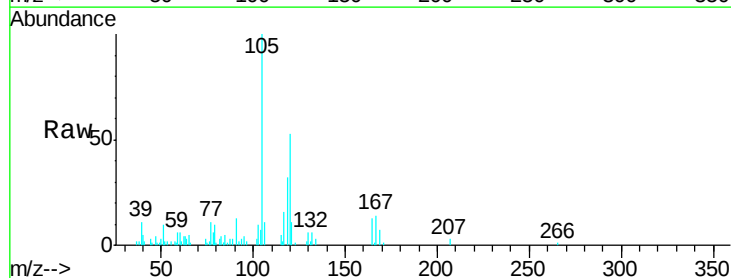
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

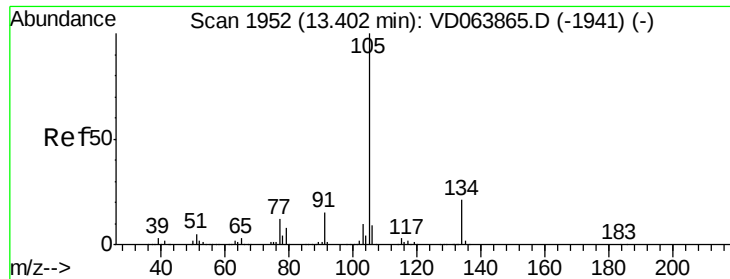
Tgt Ion:119 Resp: 27052
Ion Ratio Lower Upper
119 100
91 61.6 30.0 90.0
134 26.0 13.0 38.9



#84
1,2,4-Trimethylbenzene
Concen: 3.745 ug/l
RT: 13.27 min Scan# 1929
Delta R.T. -0.00 min
Lab File: VD063889.D
Acq: 04 Oct 2019 17:11

Tgt Ion:105 Resp: 31756
Ion Ratio Lower Upper
105 100
120 48.1 23.8 71.5

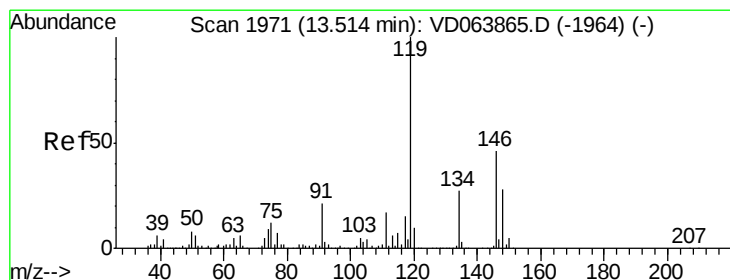
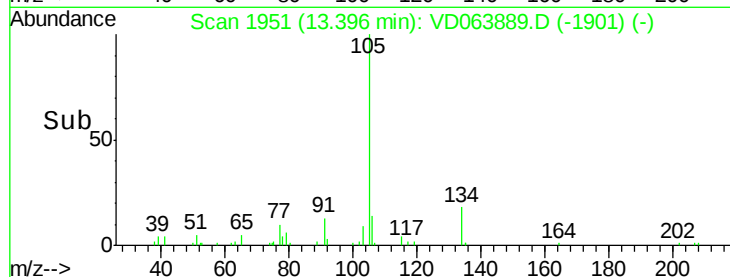
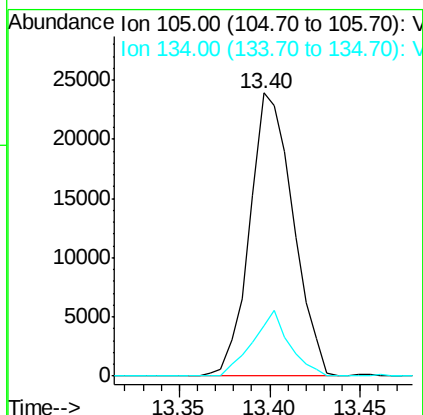
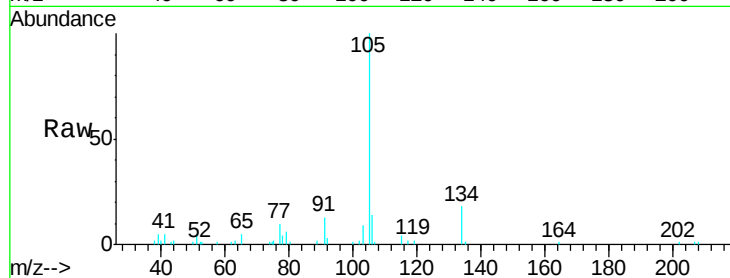




#85
 sec-Butylbenzene
 Concen: 4.031 ug/l
 RT: 13.40 min Scan# 1951
 Delta R.T. -0.01 min
 Lab File: VD063889.D
 Acq: 04 Oct 2019 17:11

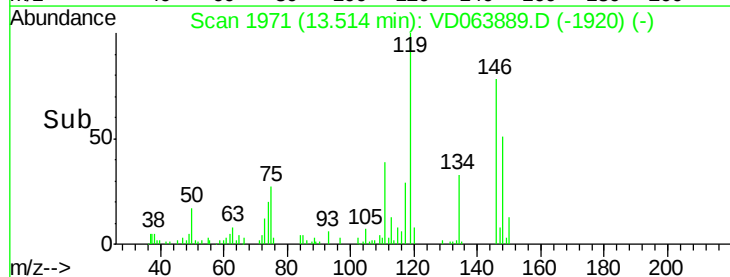
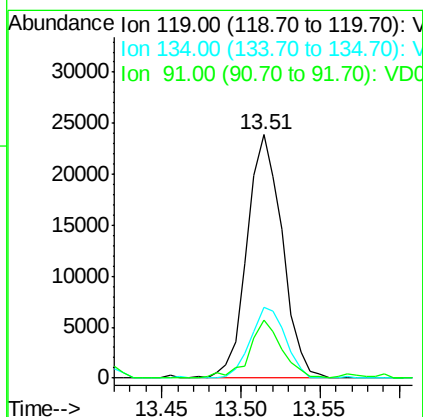
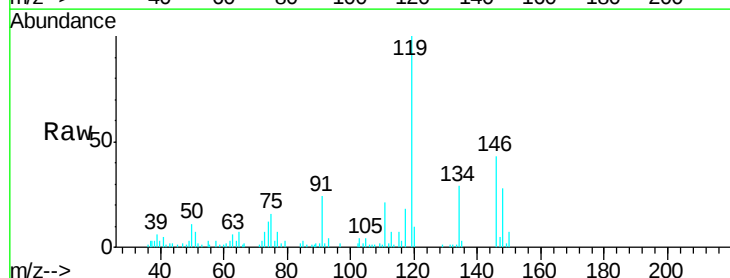
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

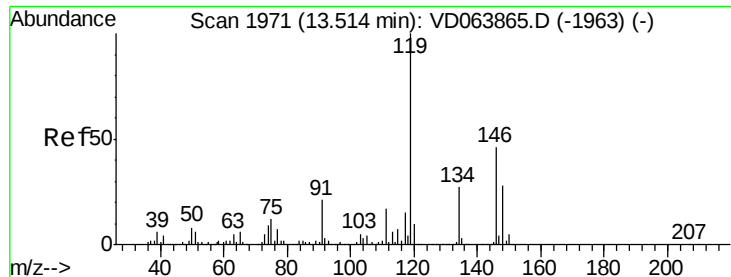
Tgt Ion:105 Resp: 39854
 Ion Ratio Lower Upper
 105 100
 134 19.6 10.6 31.8



#86
 p-Isopropyltoluene
 Concen: 3.955 ug/l
 RT: 13.51 min Scan# 1971
 Delta R.T. -0.00 min
 Lab File: VD063889.D
 Acq: 04 Oct 2019 17:11

Tgt Ion:119 Resp: 37001
 Ion Ratio Lower Upper
 119 100
 134 28.7 13.9 41.6
 91 21.8 11.2 33.5

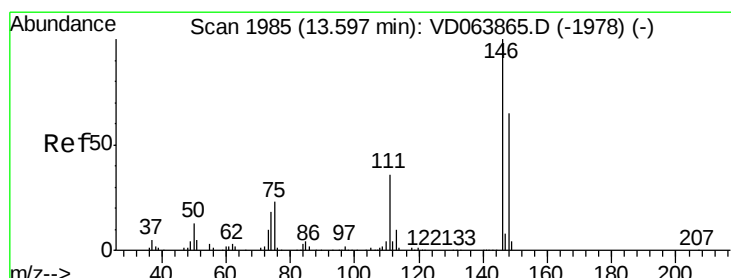
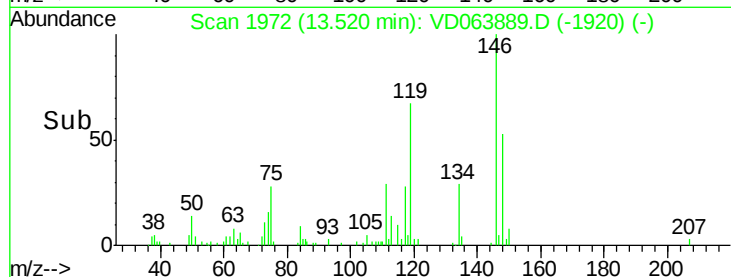
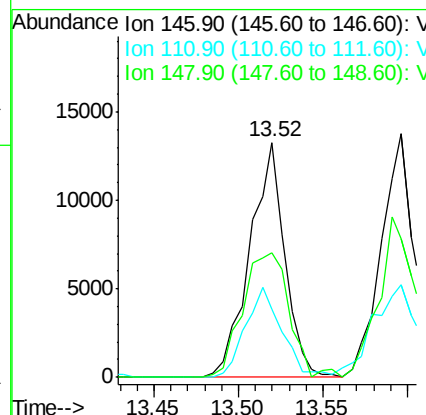
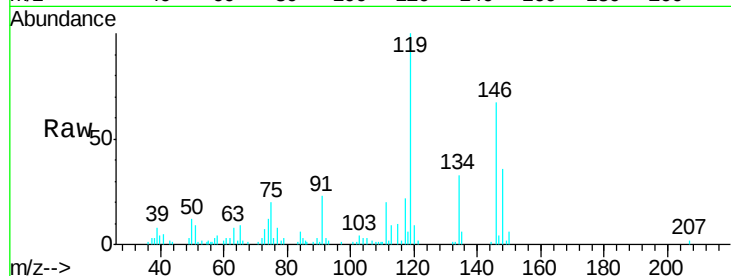




#87
 1,3-Dichlorobenzene
 Concen: 3.951 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. 0.01 min
 Lab File: VD063889.D
 Acq: 04 Oct 2019 17:11

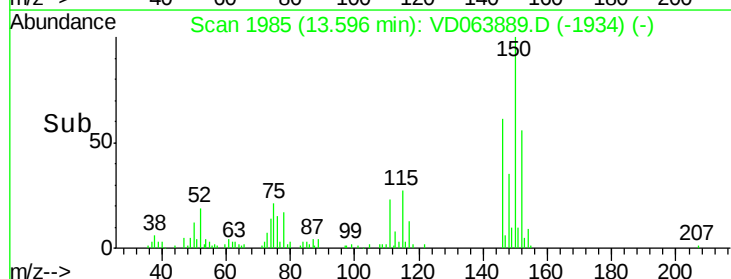
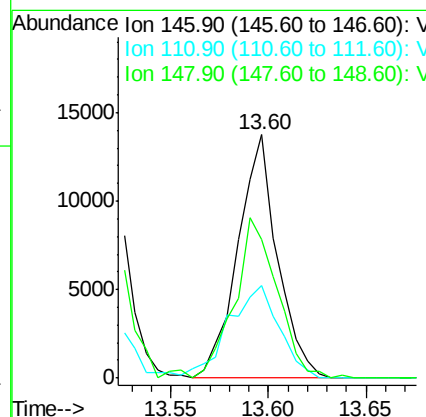
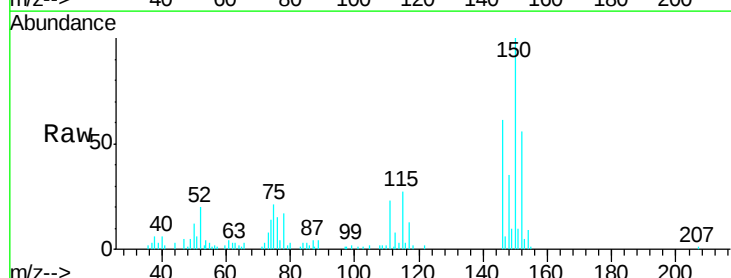
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

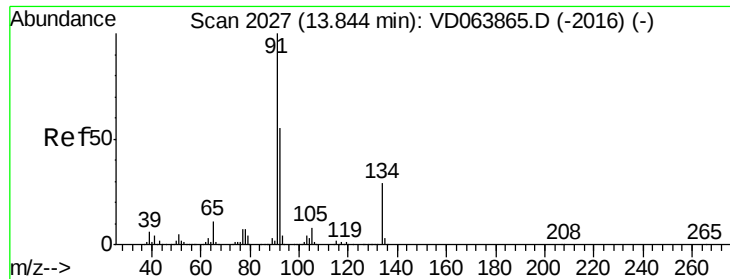
Tgt Ion:146 Resp: 19180
 Ion Ratio Lower Upper
 146 100
 111 39.4 18.3 54.9
 148 69.6 31.8 95.4



#88
 1,4-Dichlorobenzene
 Concen: 4.036 ug/l
 RT: 13.60 min Scan# 1985
 Delta R.T. -0.00 min
 Lab File: VD063889.D
 Acq: 04 Oct 2019 17:11

Tgt Ion:146 Resp: 19328
 Ion Ratio Lower Upper
 146 100
 111 48.3 18.6 56.0
 148 70.8 32.6 98.0

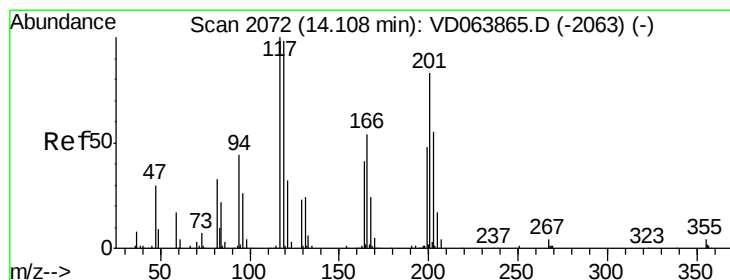
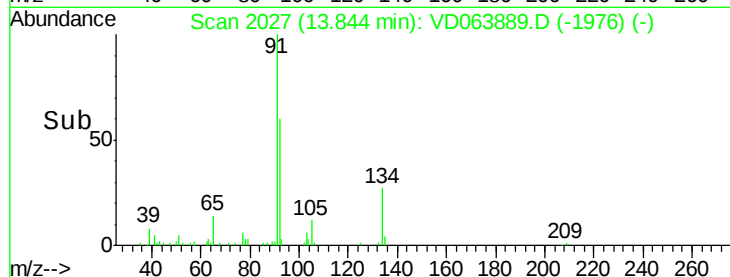
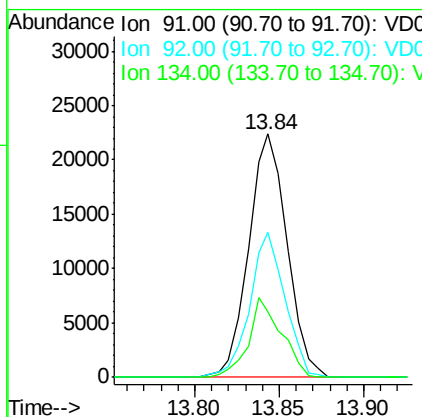
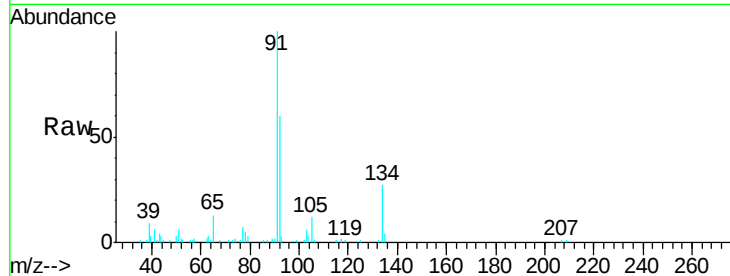




#89
n-Butylbenzene
Concen: 4.047 ug/l
RT: 13.84 min Scan# 2027
Delta R.T. -0.00 min
Lab File: VD063889.D
Acq: 04 Oct 2019 17:11

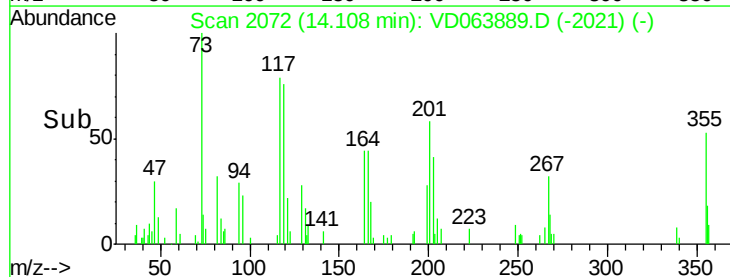
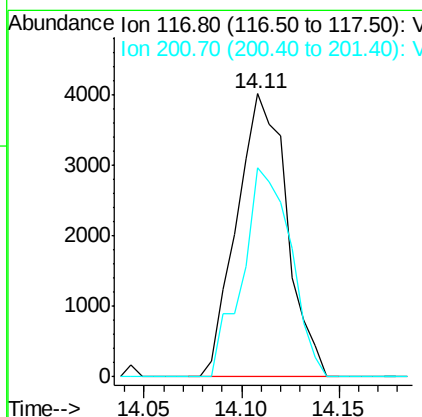
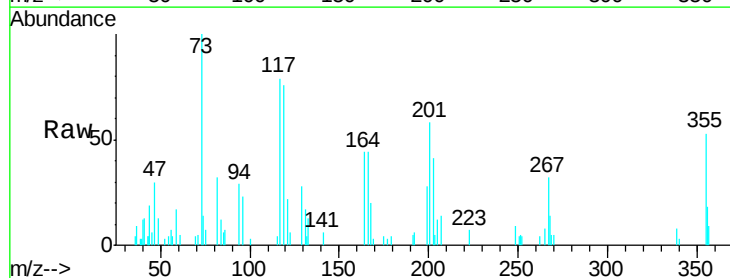
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

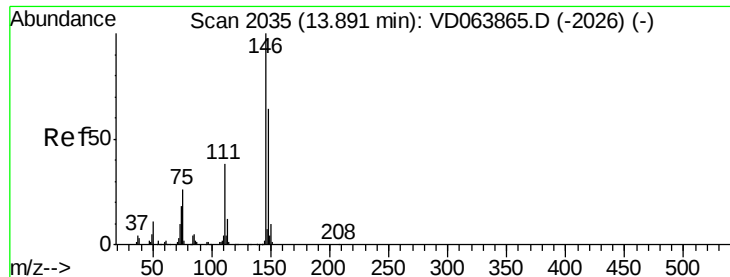
Tgt Ion: 91 Resp: 35239
Ion Ratio Lower Upper
91 100
92 54.9 26.8 80.3
134 28.2 14.4 43.0



#90
Hexachloroethane
Concen: 4.251 ug/l
RT: 14.11 min Scan# 2072
Delta R.T. -0.00 min
Lab File: VD063889.D
Acq: 04 Oct 2019 17:11

Tgt Ion: 117 Resp: 7153
Ion Ratio Lower Upper
117 100
201 71.2 40.6 121.7





#91

1,2-Dichlorobenzene

Concen: 4.272 ug/l

RT: 13.88 min Scan# 2034

Delta R.T. -0.01 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

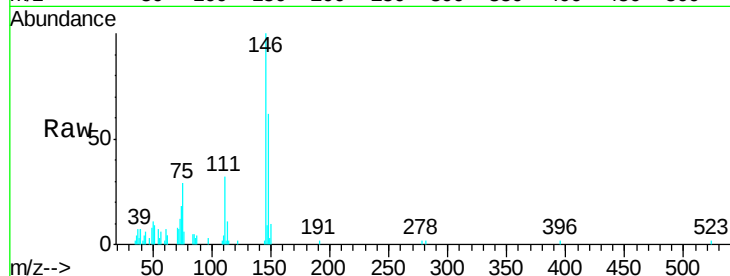
Tgt Ion:146 Resp: 17870

Ion Ratio Lower Upper

146 100

111 37.8 18.6 55.6

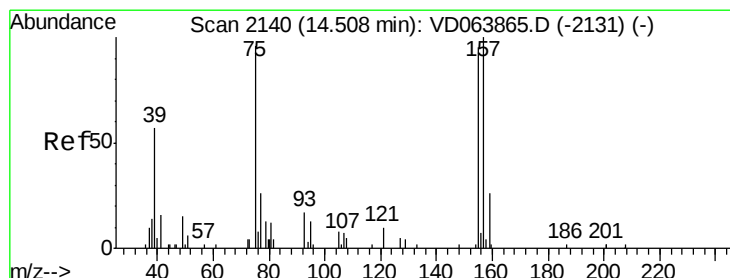
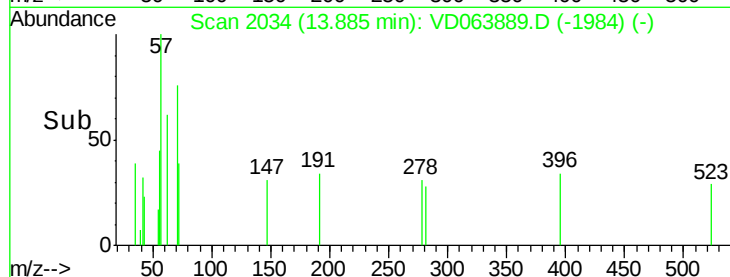
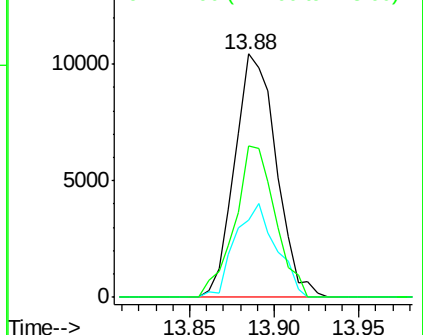
148 60.8 31.6 95.0



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 4.619 ug/l

RT: 14.51 min Scan# 2140

Delta R.T. 0.00 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

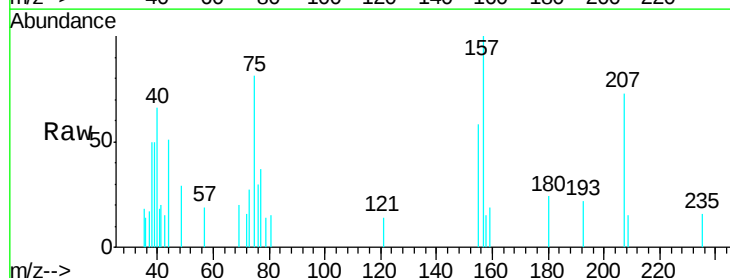
Tgt Ion: 75 Resp: 1371

Ion Ratio Lower Upper

75 100

155 85.7 43.9 131.6

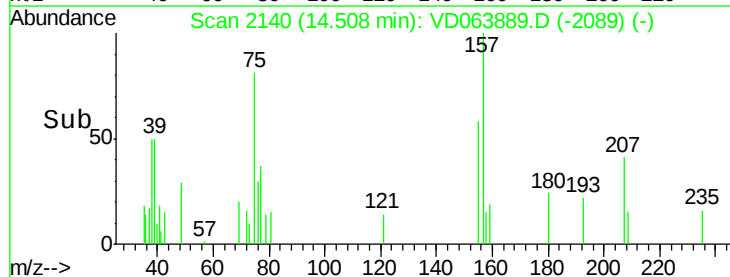
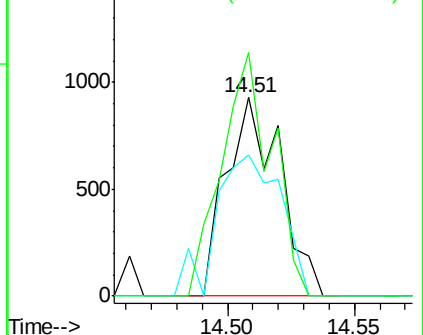
157 114.6 56.0 167.9

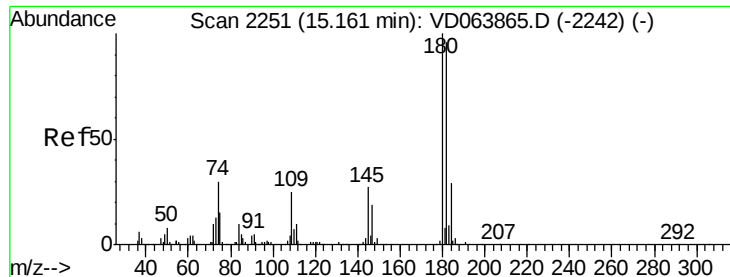


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

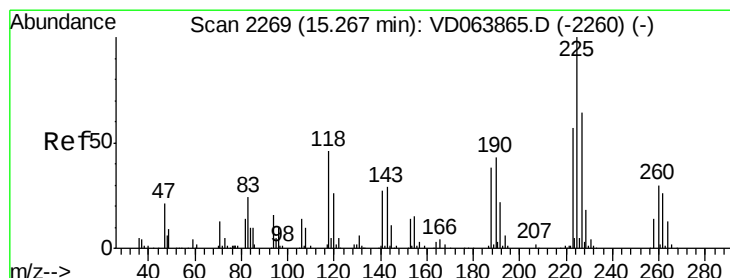
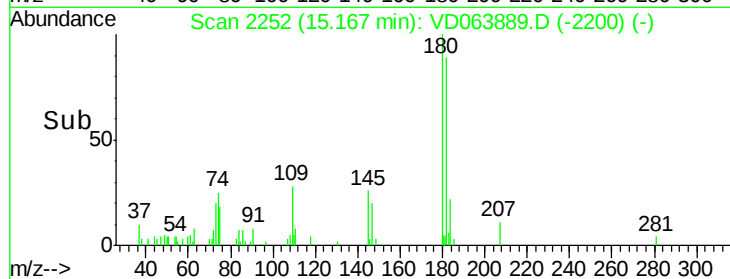
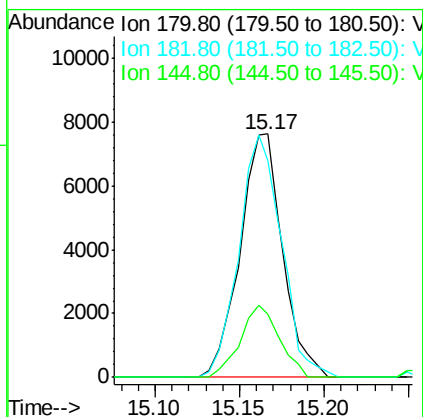
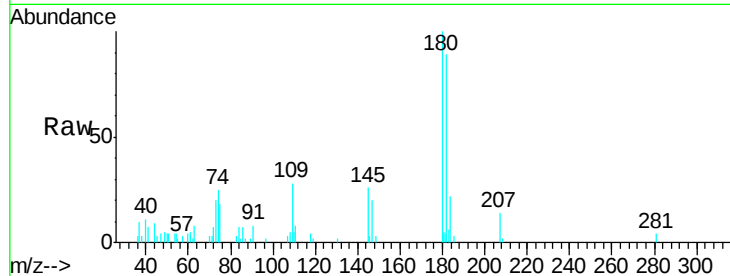




#93
 1,2,4-Trichlorobenzene
 Concen: 4.148 ug/l
 RT: 15.17 min Scan# 2252
 Delta R.T. 0.01 min
 Lab File: VD063889.D
 Acq: 04 Oct 2019 17:11

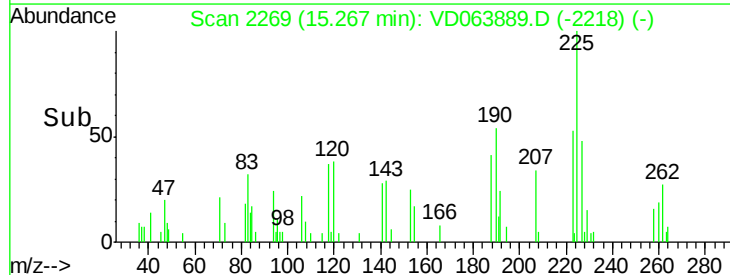
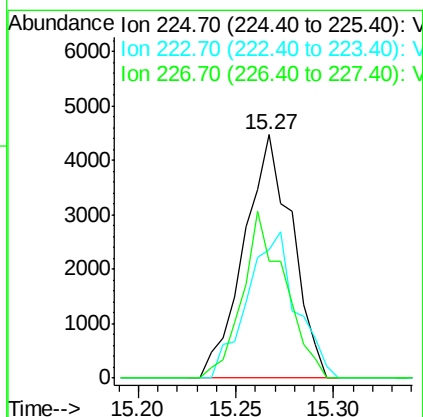
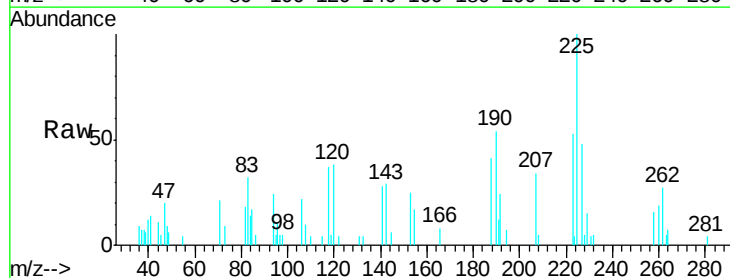
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

Tgt Ion:180 Resp: 13389
 Ion Ratio Lower Upper
 180 100
 182 99.4 47.4 142.3
 145 27.0 13.9 41.7



#94
 Hexachlorobutadiene
 Concen: 4.300 ug/l
 RT: 15.27 min Scan# 2269
 Delta R.T. -0.00 min
 Lab File: VD063889.D
 Acq: 04 Oct 2019 17:11

Tgt Ion:225 Resp: 7659
 Ion Ratio Lower Upper
 225 100
 223 61.0 29.5 88.6
 227 59.8 30.8 92.4





#95

Naphthalene

Concen: 3.778 ug/l

RT: 15.40 min Scan# 2291

Delta R.T. -0.00 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

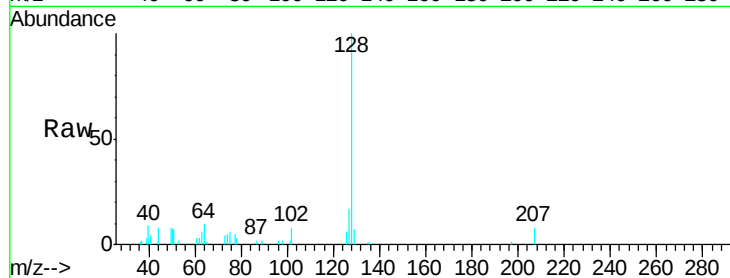
Tgt Ion:128 Resp: 20494

Ion Ratio Lower Upper

128 100

127 15.2 10.6 16.0

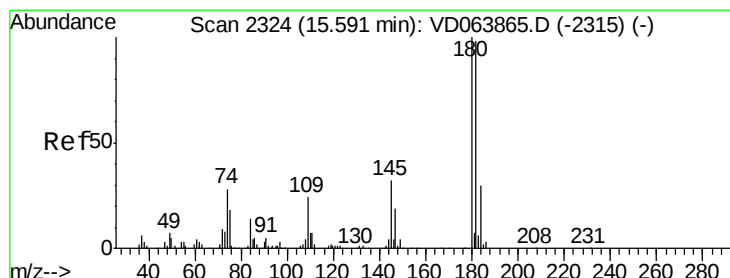
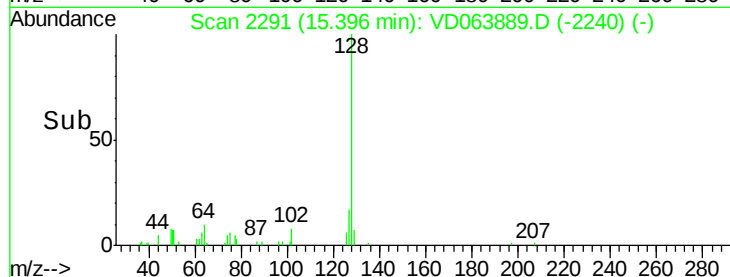
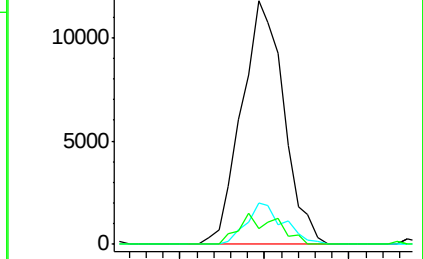
129 11.3 8.6 13.0



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: 3.848 ug/l

RT: 15.60 min Scan# 2325

Delta R.T. 0.01 min

Lab File: VD063889.D

Acq: 04 Oct 2019 17:11

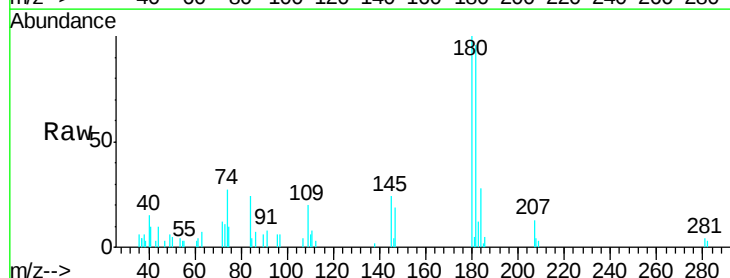
Tgt Ion:180 Resp: 10716

Ion Ratio Lower Upper

180 100

182 100.7 47.0 141.0

145 32.4 15.3 45.9



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

