

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY101519\
 Data File : VY000317.D
 Acq On : 15 Oct 2019 14:02
 Operator : SY/MD
 Sample : K5111-02 5PPB L00
 Misc : 5.00G/5ML/MSVOA Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

Quant Time: Oct 15 17:39:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y101119S.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 14 08:10:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	307574	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	508629	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	447352	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	213881	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.16	65	176876	54.52	ug/l	0.00
Spiked Amount			Recovery	=	109.04%	
35) Dibromofluoromethane	7.74	113	154384	50.32	ug/l	0.00
Spiked Amount			Recovery	=	100.64%	
50) Toluene-d8	10.19	98	611103	51.78	ug/l	0.00
Spiked Amount			Recovery	=	103.56%	
62) 4-Bromofluorobenzene	12.48	95	219728	49.01	ug/l	0.00
Spiked Amount			Recovery	=	98.02%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.90	85	16241	2.547	ug/l	98
3) Chloromethane	2.12	50	20343	5.413	ug/l	98
4) Vinyl Chloride	2.25	62	21488	5.665	ug/l	99
5) Bromomethane	2.65	94	17076	6.074	ug/l	93
6) Chloroethane	2.80	64	14506	5.927	ug/l	97
7) Trichlorofluoromethane	3.13	101	28511	5.495	ug/l	93
8) Diethyl Ether	3.54	74	11147	6.081	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.90	101	18111	5.756	ug/l	95
10) Methyl Iodide	4.09	142	18953	5.314	ug/l	97
11) Tert butyl alcohol	4.98	59	10821	31.870	ug/l #	85
12) 1,1-Dichloroethene	3.88	96	16251	5.231	ug/l	97
13) Acrolein	3.74	56	9341	23.466	ug/l	90
14) Allyl chloride	4.48	41	26514	5.150	ug/l	96
15) Acrylonitrile	5.18	53	29403	28.660	ug/l	98
16) Acetone	3.96	43	26096	24.837	ug/l #	88
17) Carbon Disulfide	4.20	76	52910	5.410	ug/l	97
18) Methyl Acetate	4.49	43	16852	6.455	ug/l	98
19) Methyl tert-butyl Ether	5.23	73	51518	5.957	ug/l	98
20) Methylene Chloride	4.72	84	29936	3.388	ug/l	92
21) trans-1,2-Dichloroethene	5.22	96	19400	5.443	ug/l	95
22) Diisopropyl ether	6.13	45	61491	5.648	ug/l #	95
23) Vinyl Acetate	6.07	43	182693	25.720	ug/l	95
24) 1,1-Dichloroethane	6.04	63	33955	5.713	ug/l	97
25) 2-Butanone	7.01	43	40103	27.095	ug/l	96
26) 2,2-Dichloropropane	6.99	77	34014	6.211	ug/l	96
27) cis-1,2-Dichloroethene	6.99	96	22315	5.786	ug/l	94
28) Bromochloromethane	7.35	49	14673	5.751	ug/l	96
29) Tetrahydrofuran	7.36	42	24451	27.259	ug/l	99
30) Chloroform	7.52	83	34260	5.724	ug/l	95
31) Cyclohexane	7.80	56	38335	6.176	ug/l #	81
32) 1,1,1-Trichloroethane	7.71	97	29960	5.631	ug/l	96
36) 1,1-Dichloropropene	7.92	75	27794	5.581	ug/l	98
37) Ethyl Acetate	7.08	43	18082	6.132	ug/l	98
38) Carbon Tetrachloride	7.91	117	25359	5.259	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.19	83	36043	5.530	ug/l	90
40) Benzene	8.17	78	78683	5.468	ug/l	97
41) Methacrylonitrile	7.33	41	9962	7.098	ug/l #	54
42) 1,2-Dichloroethane	8.25	62	23197	5.643	ug/l	100
43) Isopropyl Acetate	8.28	43	30340	5.411	ug/l	95
44) Trichloroethene	8.95	130	21281	5.270	ug/l	87
45) 1,2-Dichloropropane	9.22	63	21050	5.960	ug/l #	86
46) Dibromomethane	9.31	93	11134	5.640	ug/l	95
47) Bromodichloromethane	9.50	83	25788	5.543	ug/l	93
48) Methyl methacrylate	9.30	41	14664	5.968	ug/l	92
49) 1,4-Dioxane	9.31	88	2702	91.280	ug/l #	76
51) 4-Methyl-2-Pentanone	10.08	43	83772	28.969	ug/l	96
52) Toluene	10.25	92	49496	5.417	ug/l	99
53) t-1,3-Dichloropropene	10.47	75	26444	5.303	ug/l	100
54) cis-1,3-Dichloropropene	9.94	75	30339	5.358	ug/l	99
55) 1,1,2-Trichloroethane	10.65	97	16121	5.616	ug/l	96
56) Ethyl methacrylate	10.51	69	21325	5.212	ug/l	97
57) 1,3-Dichloropropane	10.79	76	27400	5.558	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.79	63	50993	31.247	ug/l	98
59) 2-Hexanone	10.84	43	54167	26.687	ug/l	97
60) Dibromochloromethane	10.99	129	16852	5.297	ug/l	100
61) 1,2-Dibromoethane	11.09	107	14930	5.417	ug/l	95
64) Tetrachloroethene	10.72	164	23896	5.611	ug/l	97
65) Chlorobenzene	11.52	112	51773	5.484	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.60	131	18387	5.544	ug/l	96
67) Ethyl Benzene	11.60	91	97065	5.546	ug/l	98
68) m/p-Xylenes	11.70	106	71318	10.659	ug/l	94
69) o-Xylene	12.03	106	35900	5.625	ug/l	94
70) Styrene	12.05	104	56745	5.272	ug/l	99
71) Bromoform	12.21	173	9371	4.915	ug/l #	95
73) Isopropylbenzene	12.33	105	90649	5.436	ug/l	99
74) N-amyl acetate	12.14	43	23840	5.823	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.58	83	16415	5.242	ug/l	100
76) 1,2,3-Trichloropropane	12.64	75	24881	9.460	ug/l #	100
77) Bromobenzene	12.61	156	21435	5.776	ug/l	94
78) n-propylbenzene	12.67	91	106745	5.331	ug/l	99
79) 2-Chlorotoluene	12.75	91	61383	5.551	ug/l	99
80) 1,3,5-Trimethylbenzene	12.81	105	75142	5.373	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.38	75	6335	5.270	ug/l	97
82) 4-Chlorotoluene	12.86	91	66706	5.707	ug/l	98
83) tert-Butylbenzene	13.08	119	64082	5.411	ug/l	99
84) 1,2,4-Trimethylbenzene	13.12	105	76686	5.556	ug/l	98
85) sec-Butylbenzene	13.25	105	91542	5.344	ug/l	99
86) p-Isopropyltoluene	13.37	119	80820	5.411	ug/l	99
87) 1,3-Dichlorobenzene	13.36	146	40149	5.491	ug/l	98
88) 1,4-Dichlorobenzene	13.45	146	41713	5.708	ug/l	95
89) n-Butylbenzene	13.69	91	78719	5.334	ug/l	99
90) Hexachloroethane	13.96	117	14114	5.103	ug/l	98
91) 1,2-Dichlorobenzene	13.74	146	37853	5.721	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.35	75	3685	6.205	ug/l	78

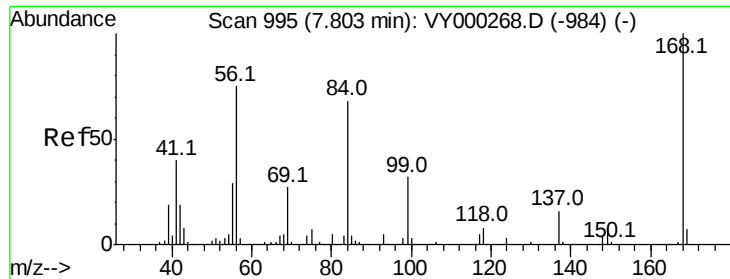
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.01	180	26006	5.645	ug/l	99
94) Hexachlorobutadiene	15.11	225	13520	5.423	ug/l	99
95) Naphthalene	15.23	128	57656	5.608	ug/l	97
96) 1,2,3-Trichlorobenzene	15.42	180	23472	5.653	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.00 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

Instrument :

MSVOA_Y

ClientSampleId :

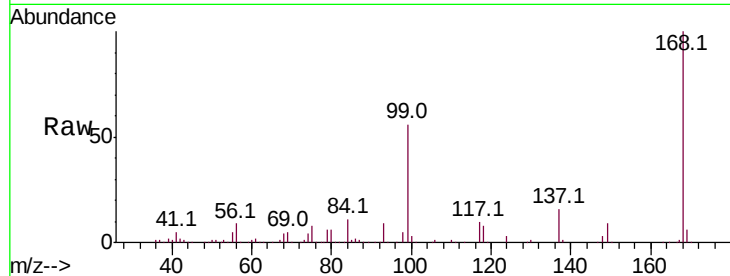
LOQ-SOIL-02-QT4-2019

Tot Ion:168 Resp: 307574

Ion Ratio Lower Upper

168 100

99 56.3 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): VY000317.D (-946) (-)

Ion 98.90 (98.60 to 99.60): VY000317.D (-946) (-)

7.80

150000

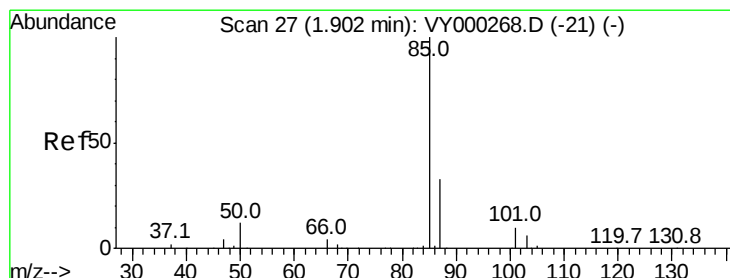
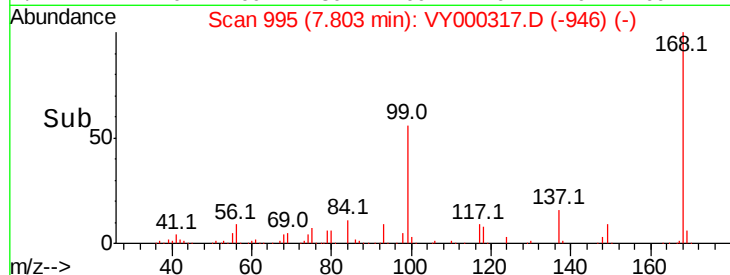
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50000

0

7.70 7.80 7.90

Time-->



#2

Dichlorodifluoromethane

Concen: 2.547 ug/l

RT: 1.90 min Scan# 27

Delta R.T. 0.00 min

Lab File: VY000317.D

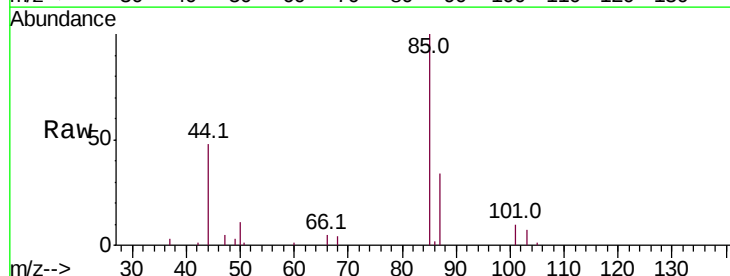
Acq: 15 Oct 2019 14:02

Tgt Ion: 85 Resp: 16241

Ion Ratio Lower Upper

85 100

87 34.1 16.6 49.8



Abundance Ion 84.90 (84.60 to 85.60): VY000317.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VY000317.D (-1) (-)

1.90

10000

8000

6000

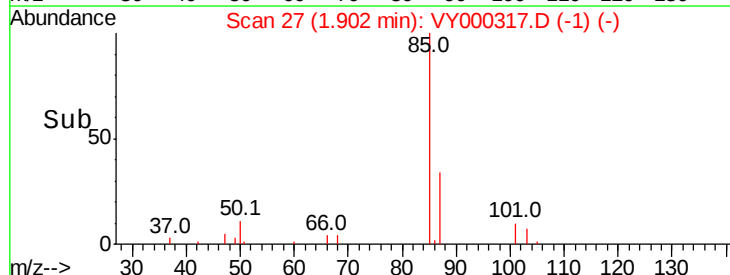
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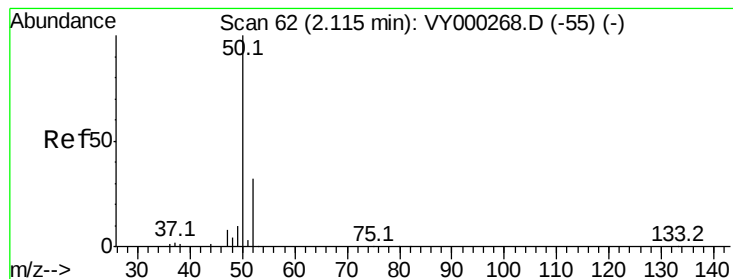
2000

0

1.85 1.90 1.95 2.00

Time-->





#3

Chloromethane

Concen: 5.413 ug/l

RT: 2.12 min Scan# 62

Delta R.T. -0.00 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

Instrument :

MSVOA_Y

ClientSampleId :

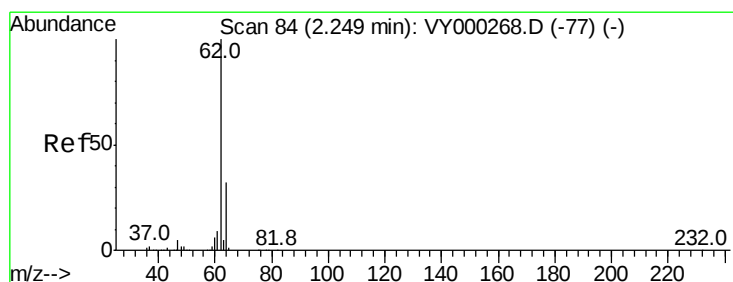
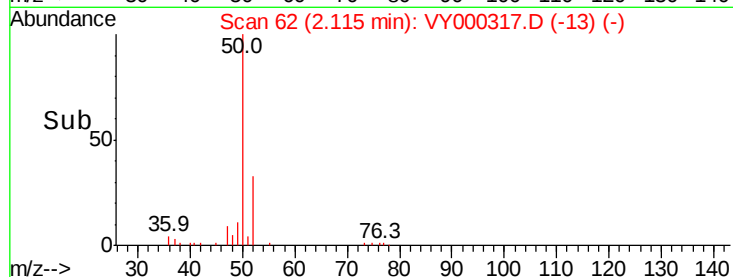
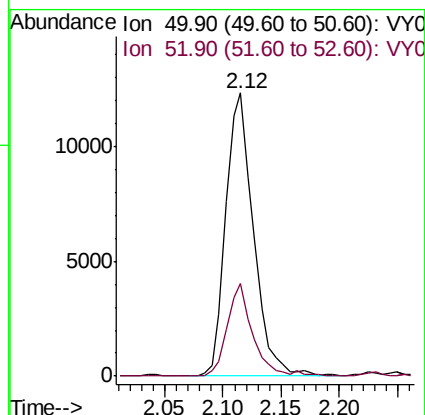
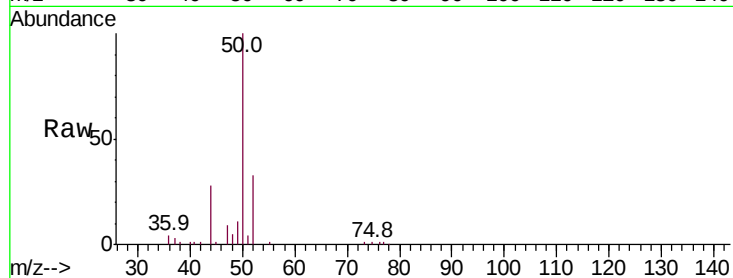
LOQ-SOIL-02-QT4-2019

Tot Ion: 50 Resp: 20343

Ion Ratio Lower Upper

50 100

52 32.5 25.3 37.9



#4

Vinyl Chloride

Concen: 5.665 ug/l

RT: 2.25 min Scan# 84

Delta R.T. -0.00 min

Lab File: VY000317.D

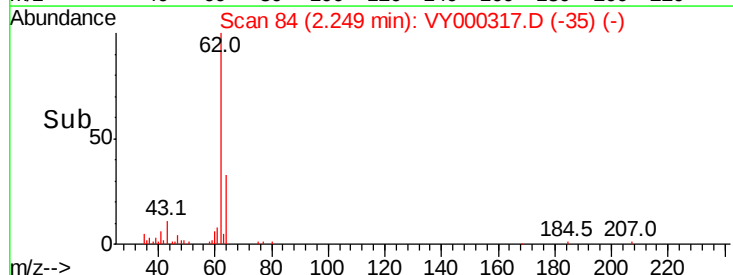
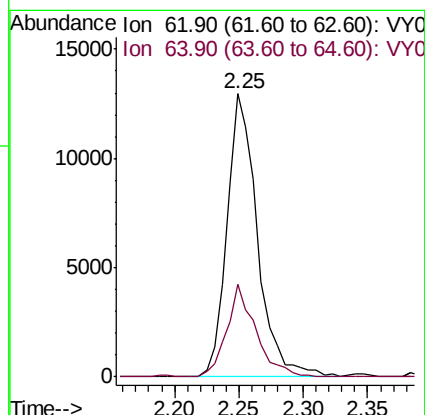
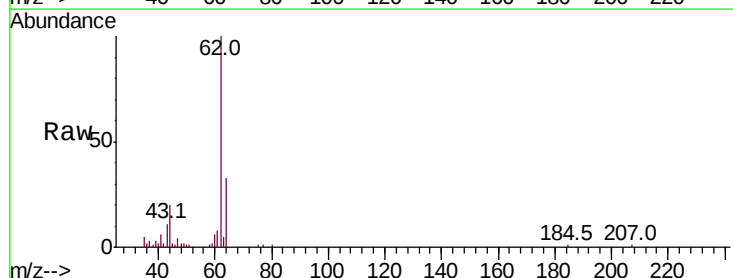
Acq: 15 Oct 2019 14:02

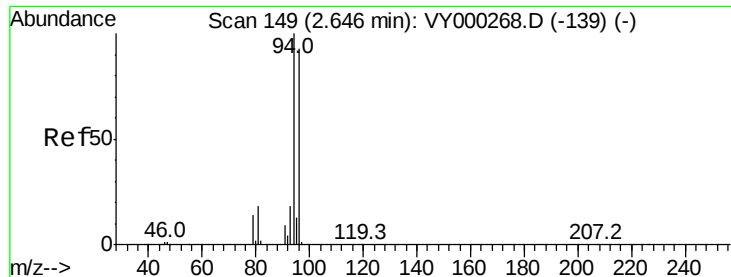
Tgt Ion: 62 Resp: 21488

Ion Ratio Lower Upper

62 100

64 32.6 25.6 38.4





#5

Bromomethane

Concen: 6.074 ug/l

RT: 2.65 min Scan# 150

Delta R.T. 0.01 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

Instrument :

MSVOA_Y

ClientSampleId :

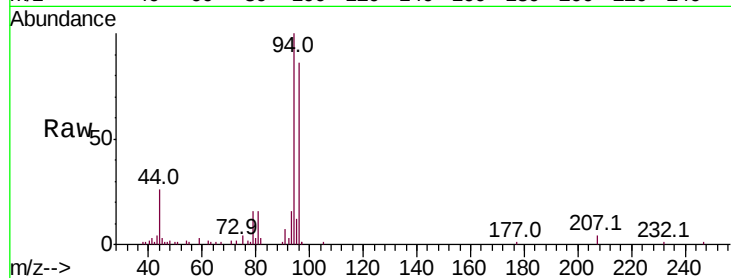
LOQ-SOIL-02-QT4-2019

Tot Ion: 94 Resp: 17076

Ion Ratio Lower Upper

94 100

96 86.2 74.2 111.2



Abundance Ion 93.90 (93.60 to 94.60): VY0

Ion 95.90 (95.60 to 96.60): VY0

2.65

8000

6000

4000

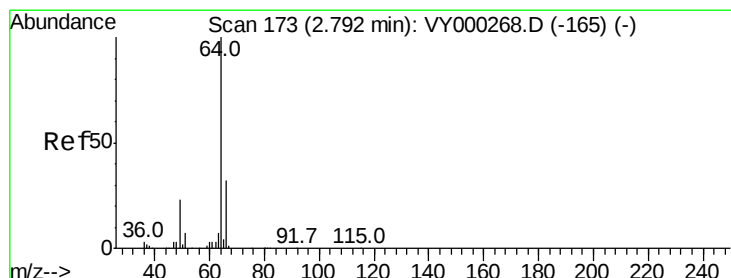
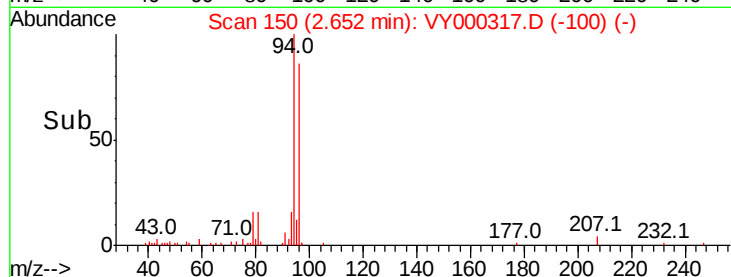
2000

0

Time-->

2.60

2.70



#6

Chloroethane

Concen: 5.927 ug/l

RT: 2.80 min Scan# 174

Delta R.T. 0.01 min

Lab File: VY000317.D

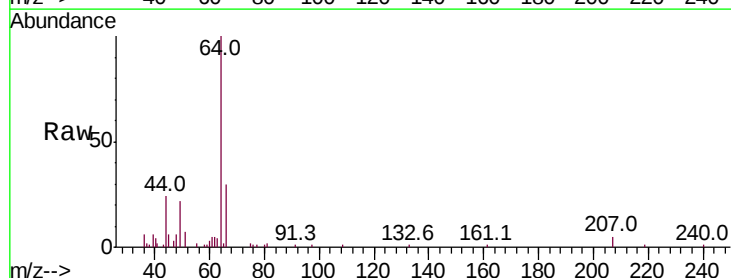
Acq: 15 Oct 2019 14:02

Tgt Ion: 64 Resp: 14506

Ion Ratio Lower Upper

64 100

66 30.4 25.6 38.4



Abundance Ion 63.90 (63.60 to 64.60): VY0

Ion 65.90 (65.60 to 66.60): VY0

2.80

8000

6000

4000

2000

0

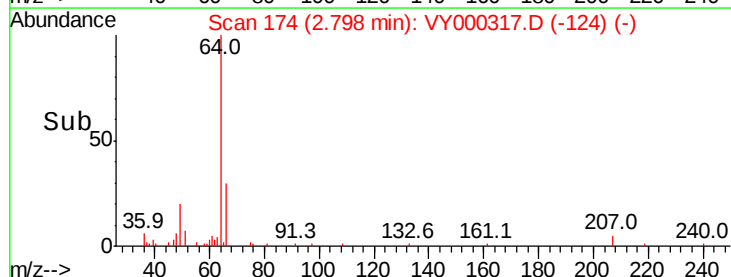
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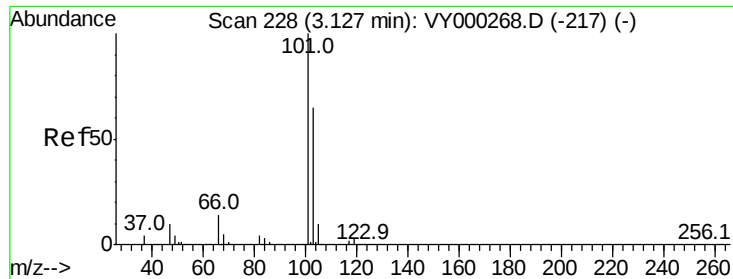
2.70

2.75

2.80

2.85





#7

Trichlorofluoromethane

Concen: 5.495 ug/l

RT: 3.13 min Scan# 228

Delta R.T. -0.00 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

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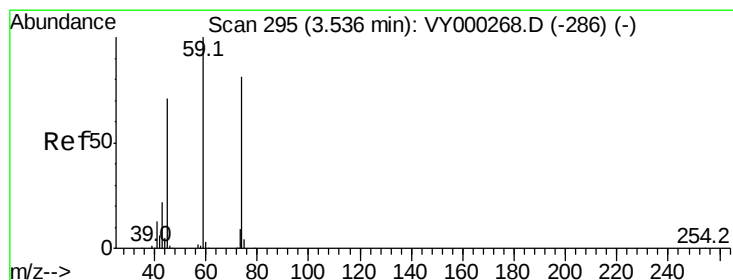
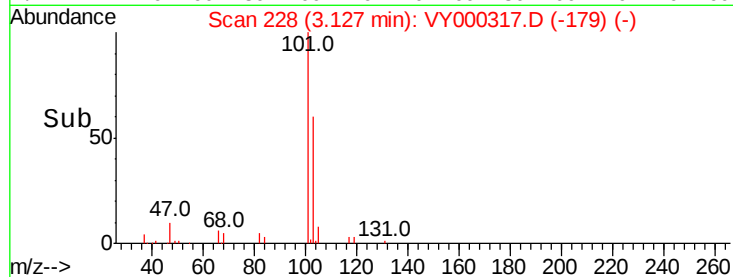
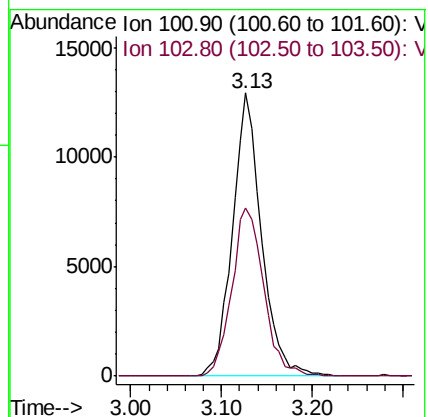
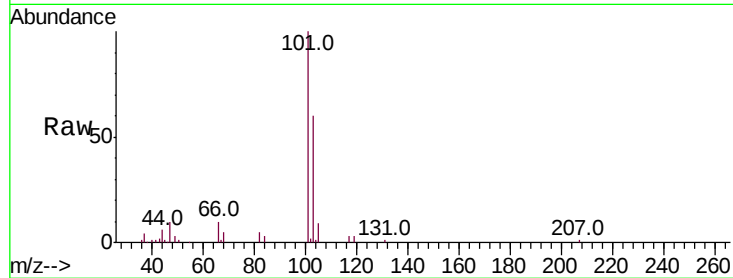
LOQ-SOIL-02-QT4-2019

Tot Ion:101 Resp: 28511

Ion Ratio Lower Upper

101 100

103 59.6 52.2 78.4



#8

Diethyl Ether

Concen: 6.081 ug/l

RT: 3.54 min Scan# 296

Delta R.T. 0.01 min

Lab File: VY000317.D

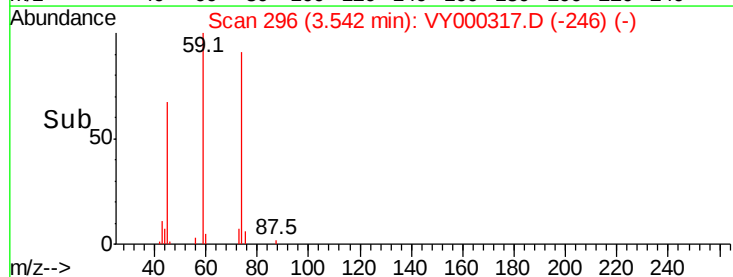
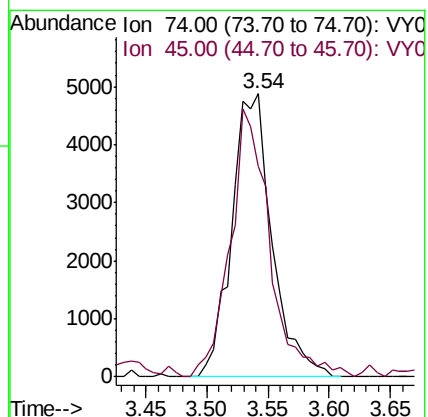
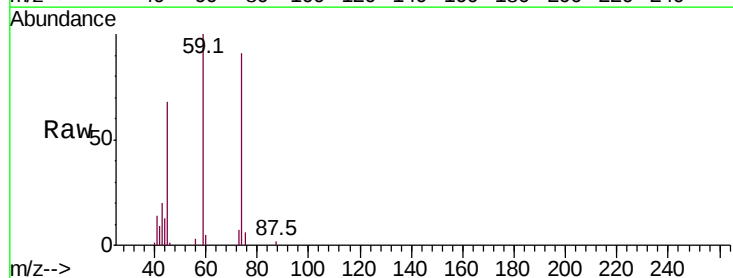
Acq: 15 Oct 2019 14:02

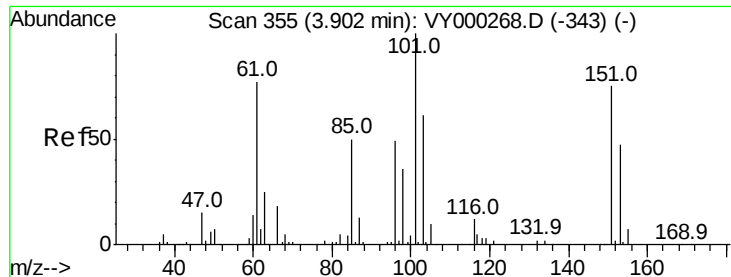
Tgt Ion: 74 Resp: 11147

Ion Ratio Lower Upper

74 100

45 92.9 47.1 141.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.756 ug/l

RT: 3.90 min Scan# 355

Delta R.T. -0.00 min

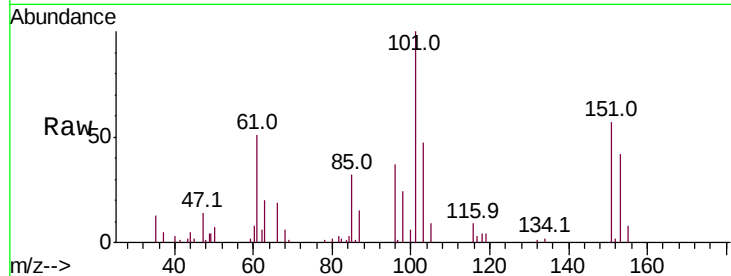
Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion:101 Resp: 18111

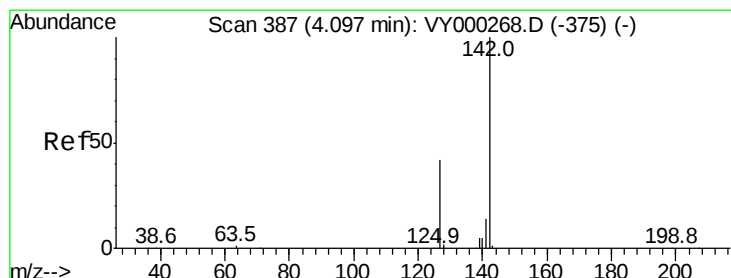
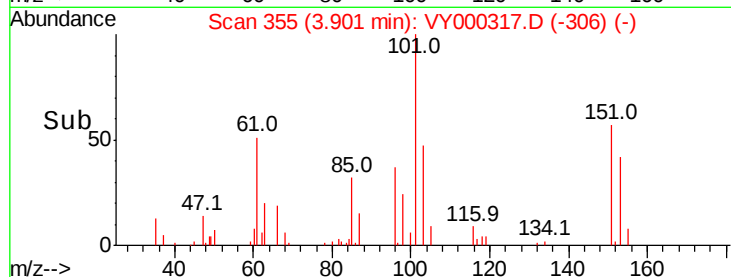
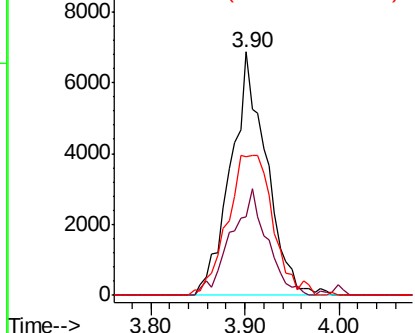
Ion	Ratio	Lower	Upper
101	100		
85	43.9	36.6	55.0
151	73.5	63.1	94.7



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VY0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 5.314 ug/l

RT: 4.09 min Scan# 386

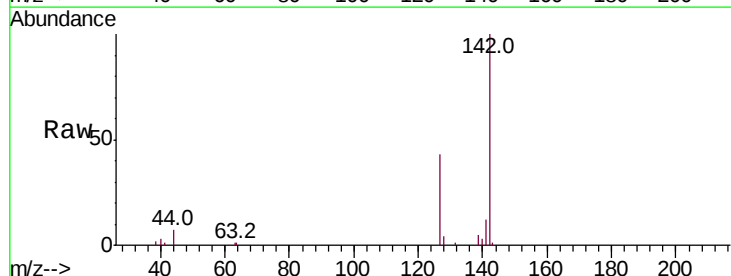
Delta R.T. -0.01 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

Tgt Ion:142 Resp: 18953

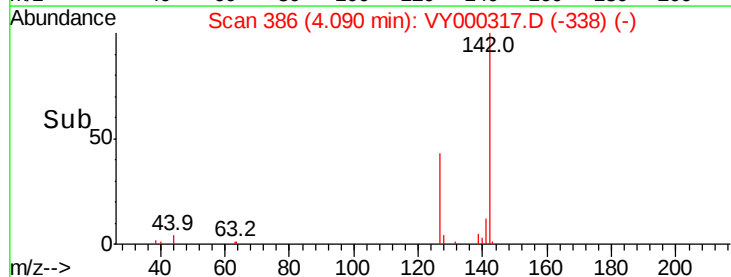
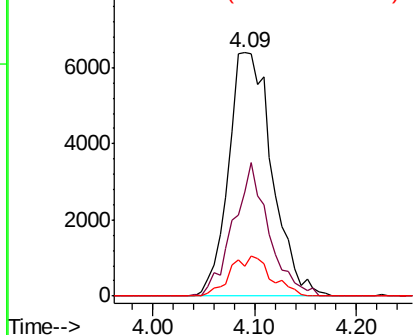
Ion	Ratio	Lower	Upper
142	100		
127	44.6	33.9	50.9
141	15.4	11.2	16.8

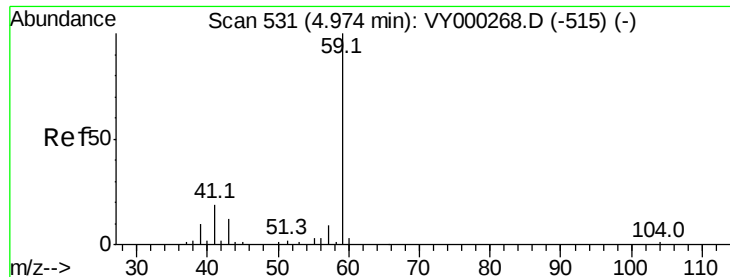


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 31.870 ug/l

RT: 4.98 min Scan# 532

Delta R.T. 0.01 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

Instrument :

MSVOA_Y

ClientSampleId :

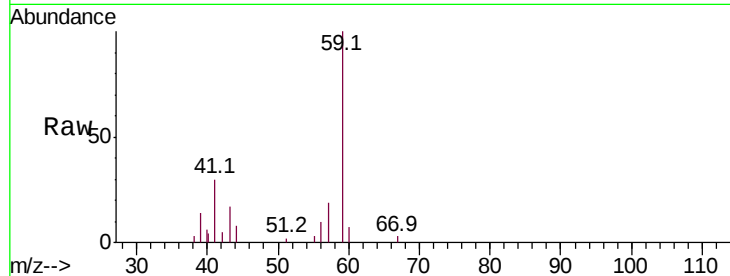
LOQ-SOIL-02-QT4-2019

Tot Ion: 59 Resp: 10821

Ion Ratio Lower Upper

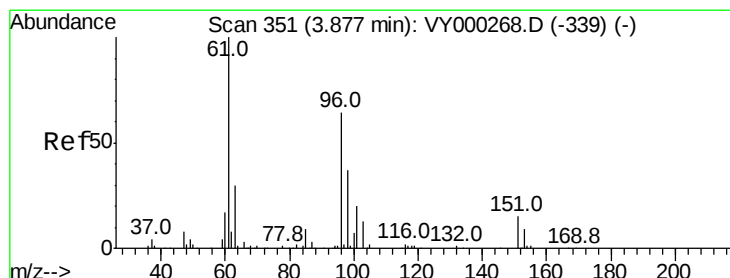
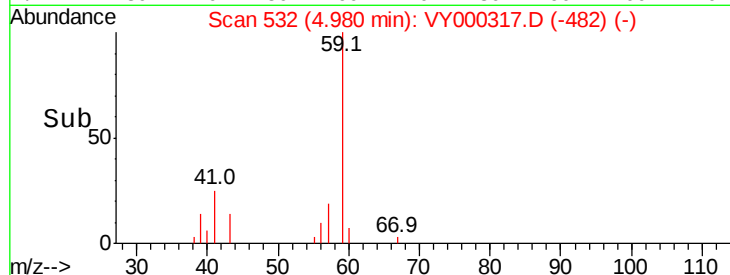
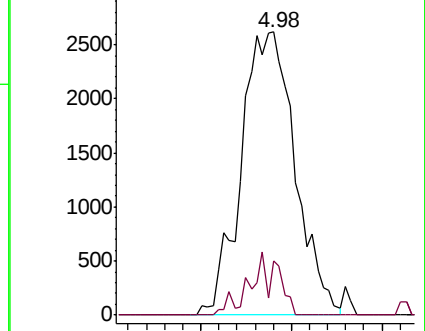
59 100

57 4.5 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VY0

Ion 57.00 (56.70 to 57.70): VY0



#12

1,1-Dichloroethene

Concen: 5.231 ug/l

RT: 3.88 min Scan# 351

Delta R.T. -0.00 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

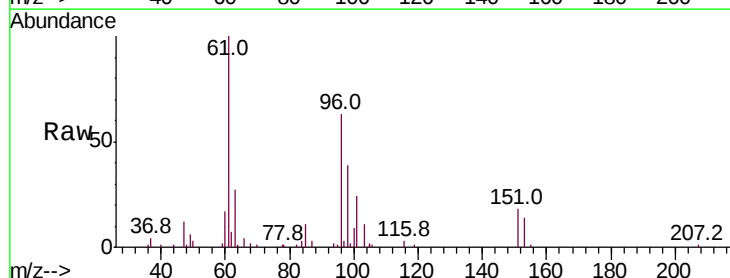
Tgt Ion: 96 Resp: 16251

Ion Ratio Lower Upper

96 100

61 159.8 125.8 188.6

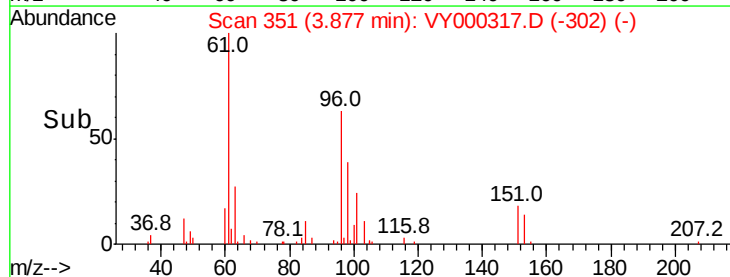
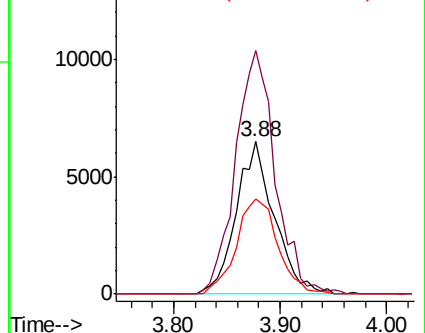
98 62.8 46.2 69.2

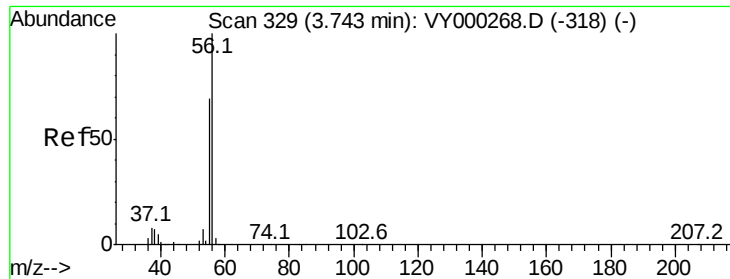


Abundance Ion 95.90 (95.60 to 96.60): VY0

Ion 60.90 (60.60 to 61.60): VY0

Ion 97.90 (97.60 to 98.60): VY0





#13

Acrolein

Concen: 23.466 ug/l

RT: 3.74 min Scan# 328

Delta R.T. -0.01 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

Instrument :

MSVOA_Y

ClientSampleId :

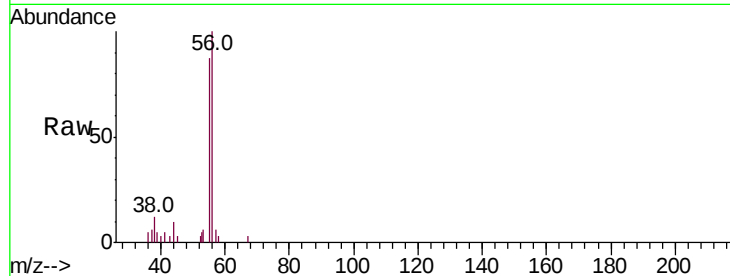
LOQ-SOIL-02-QT4-2019

Tot Ion: 56 Resp: 9341

Ion Ratio Lower Upper

56 100

55 77.9 55.7 83.5



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

3.74

4000

3000

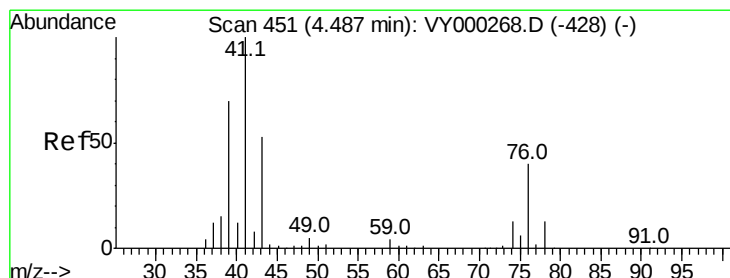
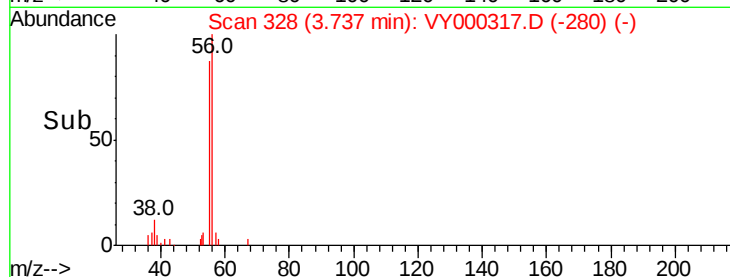
2000

1000

0

Time-->

3.65 3.70 3.75 3.80



#14

Allyl chloride

Concen: 5.150 ug/l

RT: 4.48 min Scan# 450

Delta R.T. -0.01 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

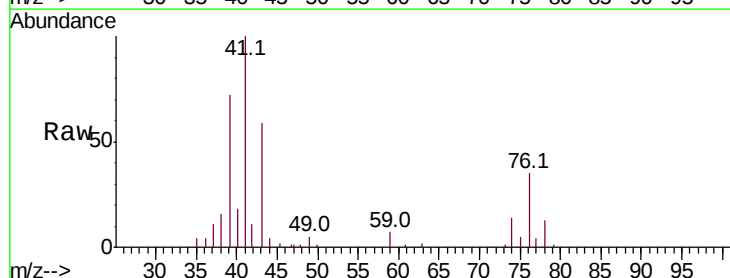
Tgt Ion: 41 Resp: 26514

Ion Ratio Lower Upper

41 100

39 71.3 54.0 81.0

76 39.5 30.7 46.1



Abundance Ion 41.00 (40.70 to 41.70): VY0

Ion 39.00 (38.70 to 39.70): VY0

Ion 75.90 (75.60 to 76.60): VY0

12000

10000

8000

6000

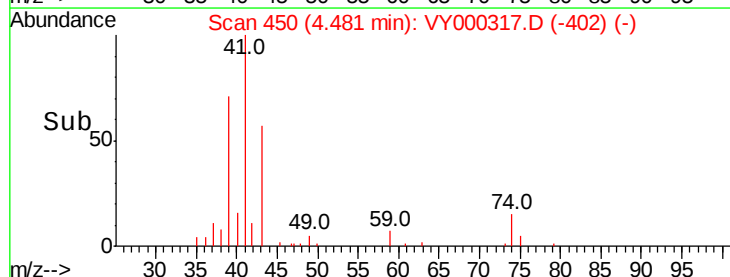
4000

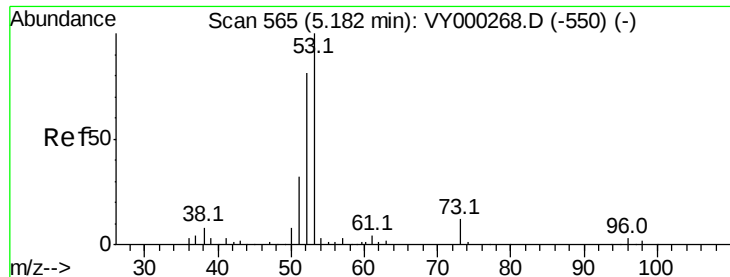
2000

0

Time-->

4.40 4.50 4.60





#15

Acrylonitrile

Concen: 28.660 ug/l

RT: 5.18 min Scan# 564

Delta R.T. -0.01 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

Instrument :

MSVOA_Y

ClientSampleId :

LOQ-SOIL-02-QT4-2019

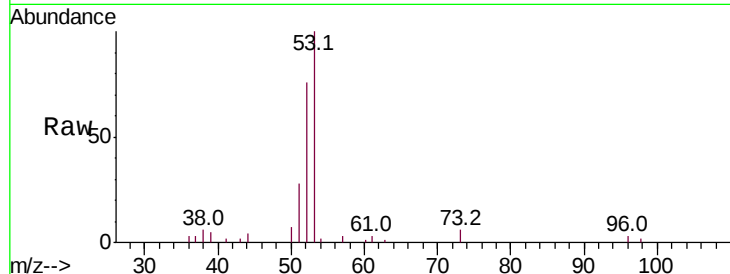
Tot Ion: 53 Resp: 29403

Ion Ratio Lower Upper

53 100

52 76.0 62.9 94.3

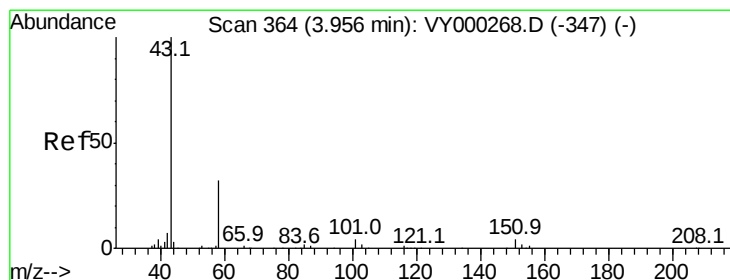
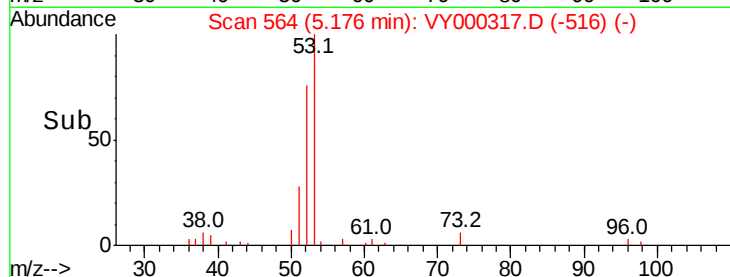
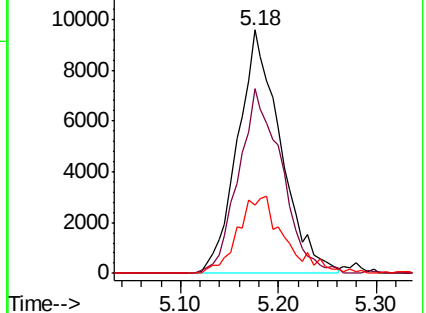
51 34.2 26.9 40.3



Abundance Ion 53.00 (52.70 to 53.70): VY0

Ion 52.00 (51.70 to 52.70): VY0

Ion 51.00 (50.70 to 51.70): VY0



#16

Acetone

Concen: 24.837 ug/l

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VY000317.D

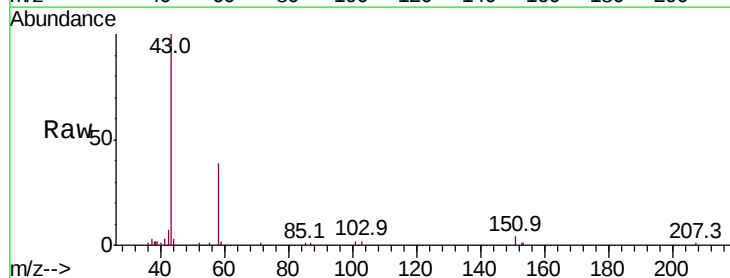
Acq: 15 Oct 2019 14:02

Tgt Ion: 43 Resp: 26096

Ion Ratio Lower Upper

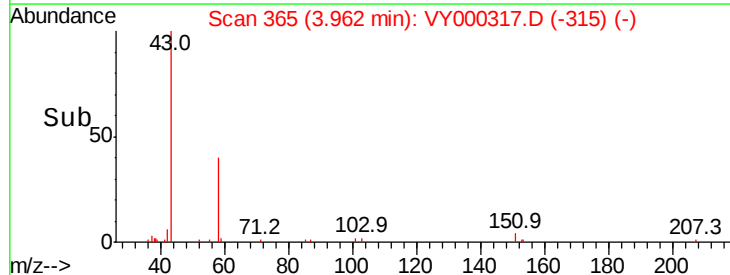
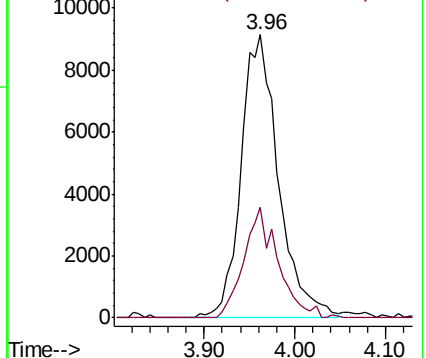
43 100

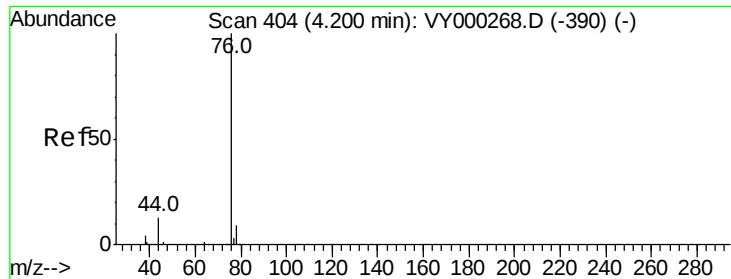
58 38.9 25.8 38.6#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

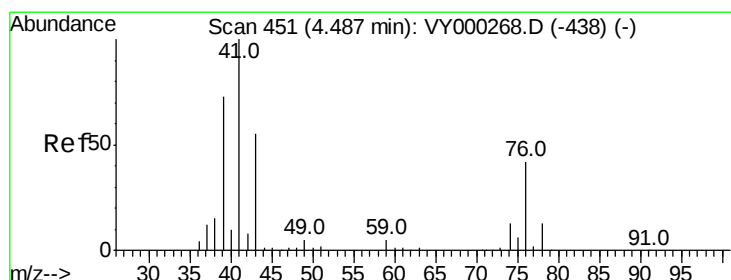
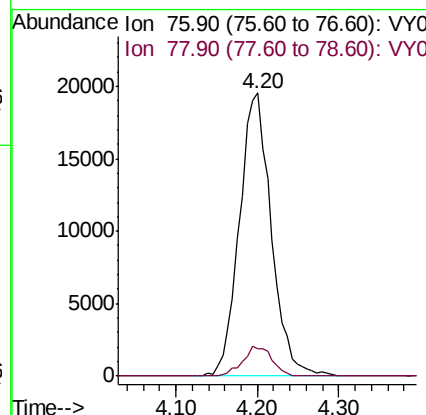
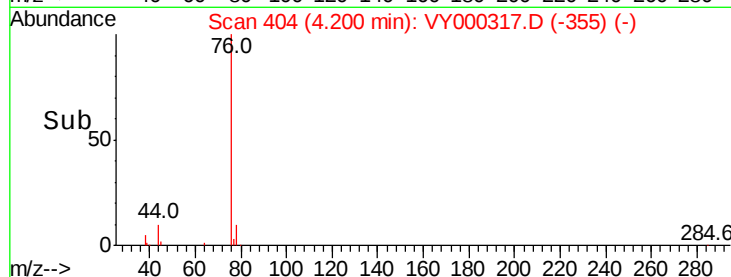
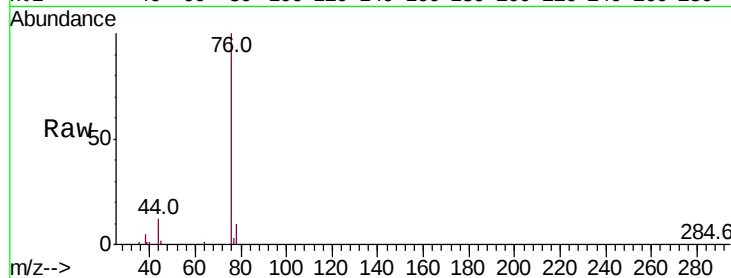




#17
Carbon Disulfide
Concen: 5.410 ug/l
RT: 4.20 min Scan# 404
Delta R.T. -0.00 min
Lab File: VY000317.D
Acq: 15 Oct 2019 14:02

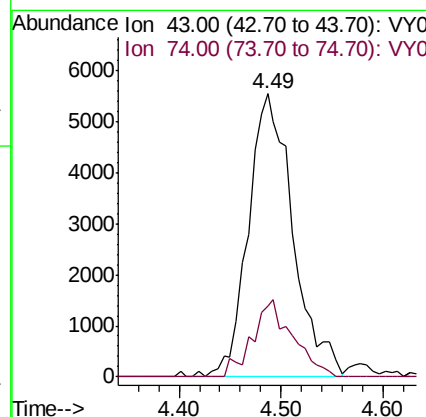
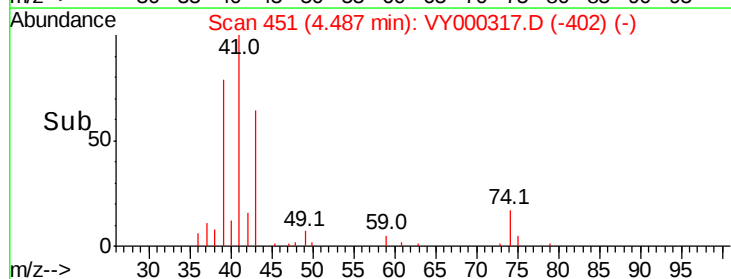
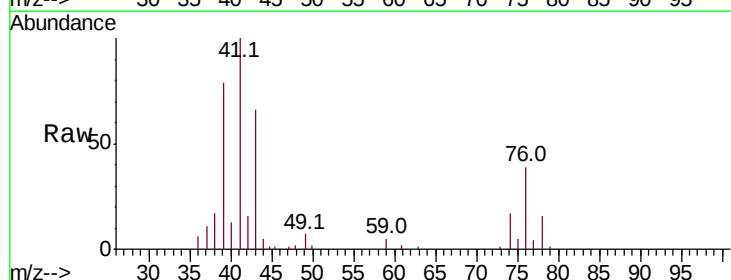
Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT4-2019

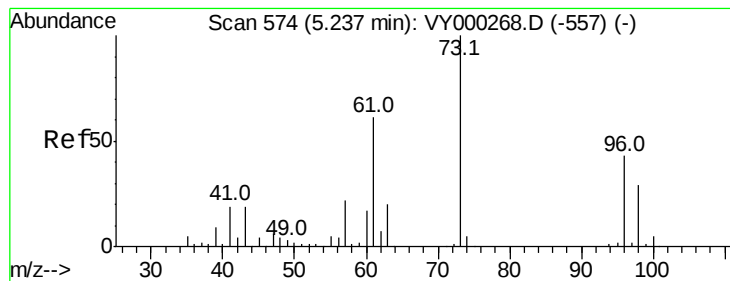
Tot Ion: 76 Resp: 52910
Ion Ratio Lower Upper
76 100
78 9.9 7.0 10.4



#18
Methyl Acetate
Concen: 6.455 ug/l
RT: 4.49 min Scan# 451
Delta R.T. -0.00 min
Lab File: VY000317.D
Acq: 15 Oct 2019 14:02

Tgt Ion: 43 Resp: 16852
Ion Ratio Lower Upper
43 100
74 24.5 20.4 30.6



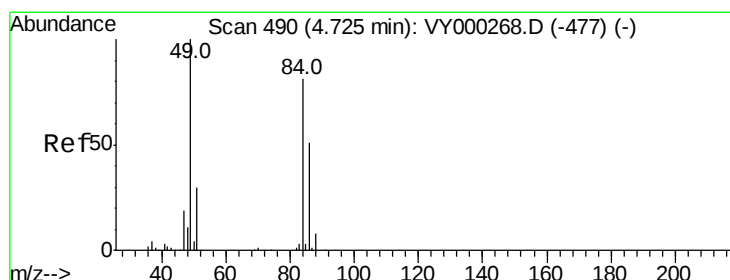
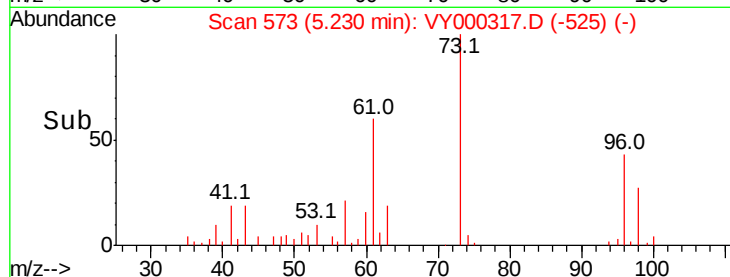
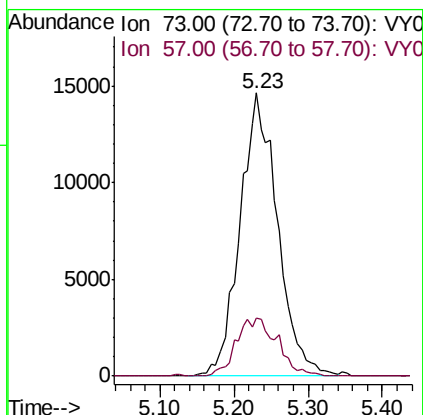
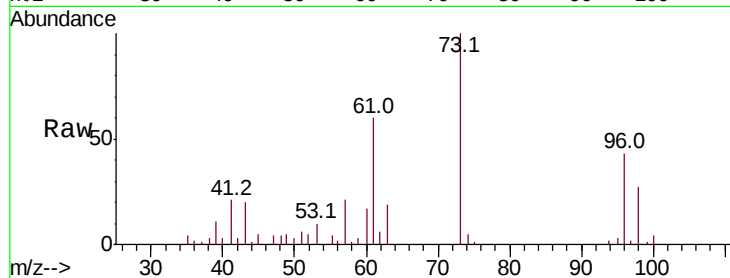


#19

Methyl tert-butyl Ether
 Concen: 5.957 ug/l
 RT: 5.23 min Scan# 573
 Delta R.T. -0.01 min
 Lab File: VY000317.D
 Acq: 15 Oct 2019 14:02

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

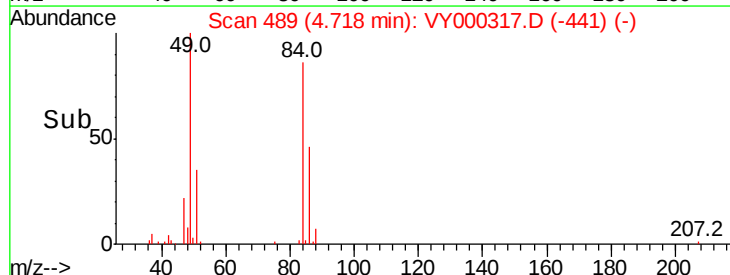
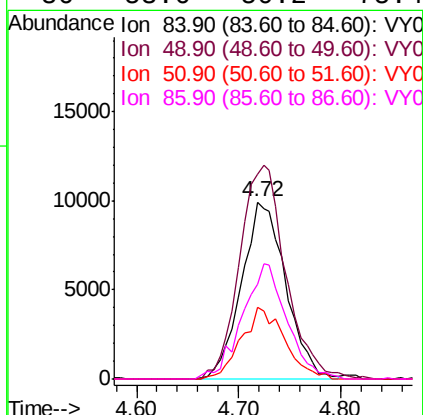
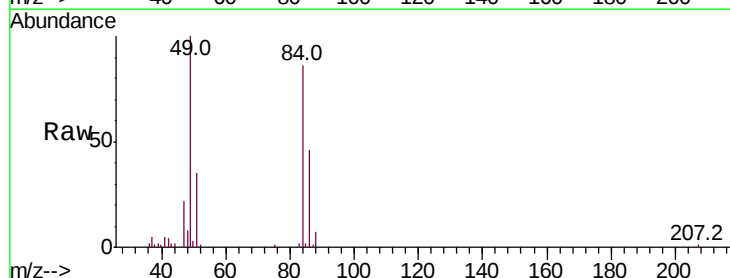
Tot Ion: 73 Resp: 51518
 Ion Ratio Lower Upper
 73 100
 57 20.6 17.4 26.0

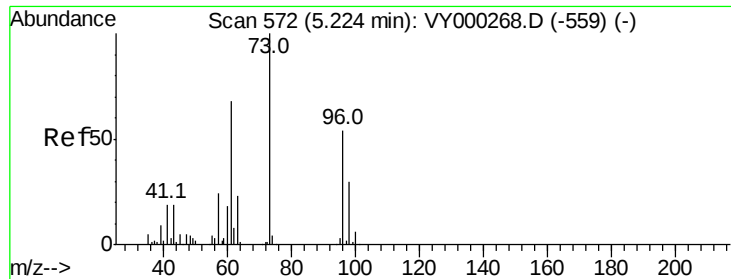


#20

Methylene Chloride
 Concen: 3.388 ug/l
 RT: 4.72 min Scan# 489
 Delta R.T. -0.01 min
 Lab File: VY000317.D
 Acq: 15 Oct 2019 14:02

Tgt Ion: 84 Resp: 29936
 Ion Ratio Lower Upper
 84 100
 49 116.0 99.0 148.4
 51 40.7 29.3 43.9
 86 53.6 50.2 75.4





#21

trans-1,2-Dichloroethene

Concen: 5.443 ug/l

RT: 5.22 min Scan# 572

Delta R.T. -0.00 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

Instrument :

MSVOA_Y

ClientSampleId :

LOQ-SOIL-02-QT4-2019

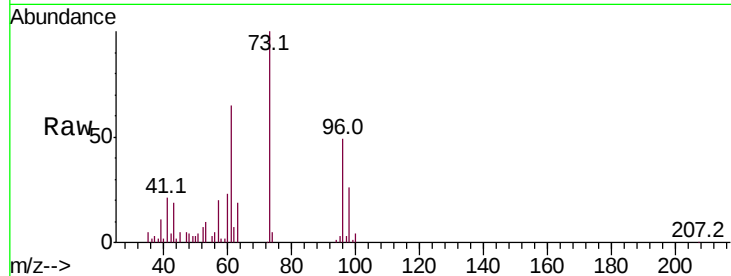
Tot Ion: 96 Resp: 19400

Ion Ratio Lower Upper

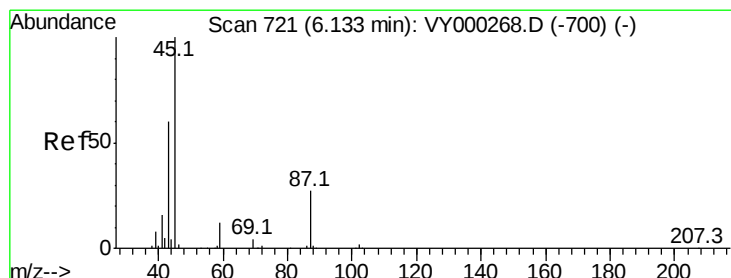
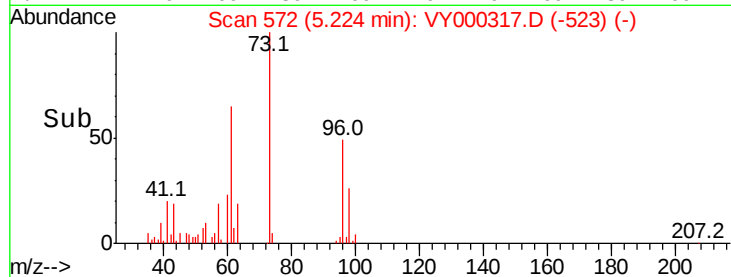
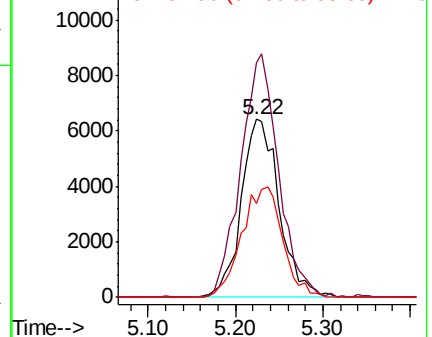
96 100

61 132.2 100.4 150.6

98 53.1 44.6 66.8



Abundance Ion 95.90 (95.60 to 96.60): VY0
Ion 60.90 (60.60 to 61.60): VY0
Ion 97.90 (97.60 to 98.60): VY0



#22

Diisopropyl ether

Concen: 5.648 ug/l

RT: 6.13 min Scan# 721

Delta R.T. -0.00 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

Tgt Ion: 45 Resp: 61491

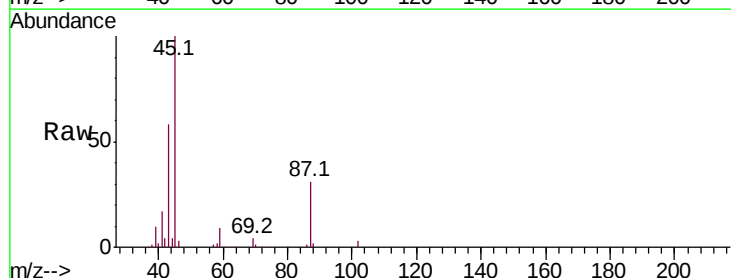
Ion Ratio Lower Upper

45 100

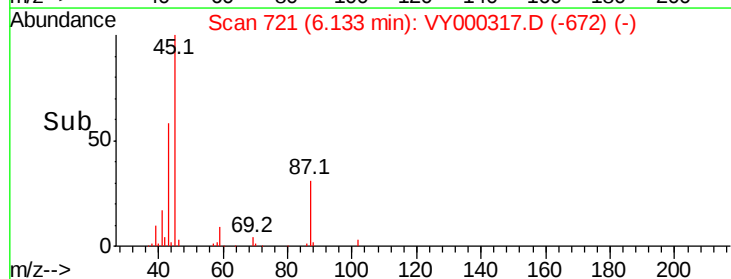
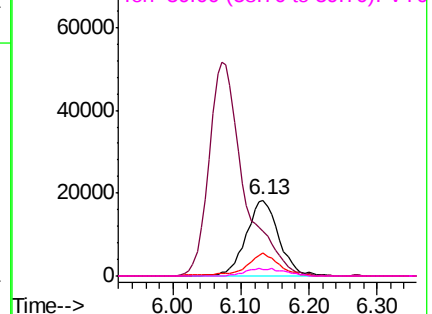
43 57.5 48.5 72.7

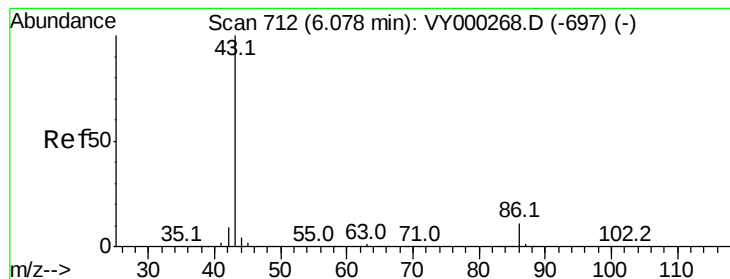
87 30.8 21.5 32.3

59 9.0 9.4 14.0#



Abundance Ion 45.00 (44.70 to 45.70): VY0
Ion 43.00 (42.70 to 43.70): VY0
Ion 87.00 (86.70 to 87.70): VY0
Ion 59.00 (58.70 to 59.70): VY0





#23

Vinyl Acetate

Concen: 25.720 ug/l

RT: 6.07 min Scan# 711

Delta R.T. -0.01 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

Instrument :

MSVOA_Y

ClientSampleId :

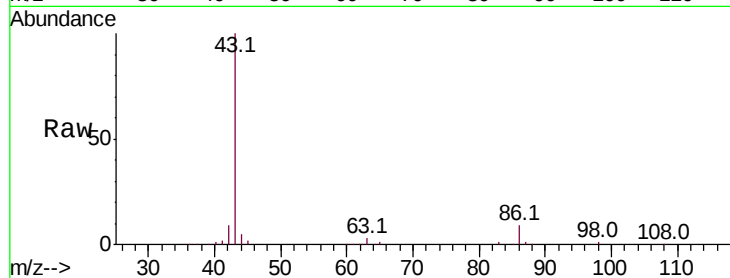
LOQ-SOIL-02-QT4-2019

Tot Ion: 43 Resp: 182693

Ion Ratio Lower Upper

43 100

86 9.0 8.6 13.0



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 86.00 (85.70 to 86.70): VY0

60000

50000

40000

30000

20000

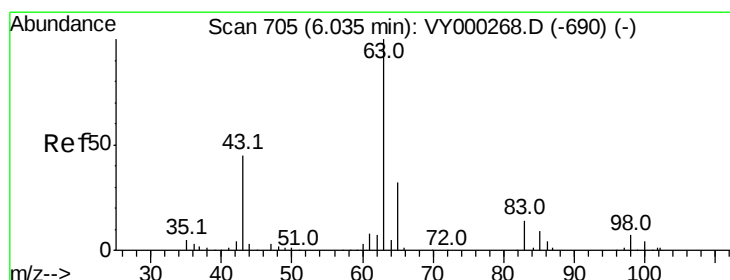
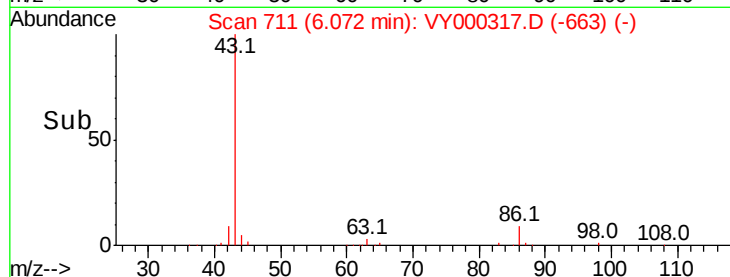
10000

0

Time-->

5.90 6.00 6.10 6.20

6.07



#24

1,1-Dichloroethane

Concen: 5.713 ug/l

RT: 6.04 min Scan# 705

Delta R.T. -0.00 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

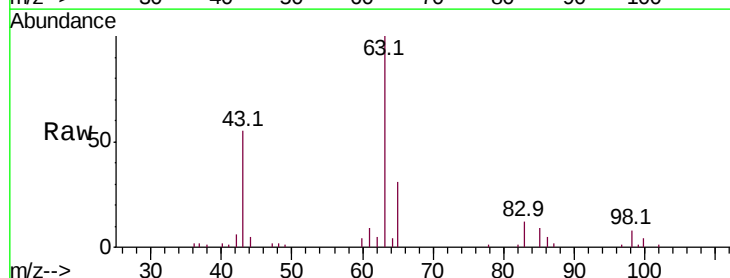
Tgt Ion: 63 Resp: 33955

Ion Ratio Lower Upper

63 100

98 8.5 3.5 10.4

100 4.4 2.1 6.2



Abundance Ion 62.90 (62.60 to 63.60): VY0

Ion 97.90 (97.60 to 98.60): VY0

Ion 99.90 (99.60 to 100.60): VY0

15000

10000

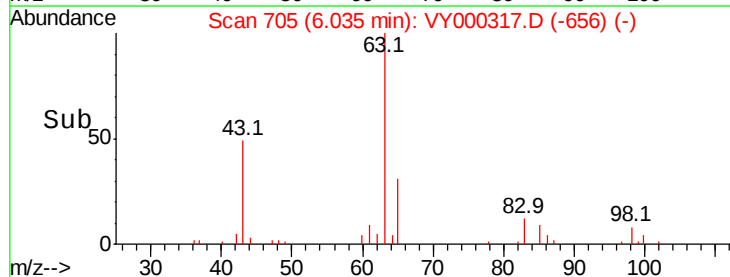
5000

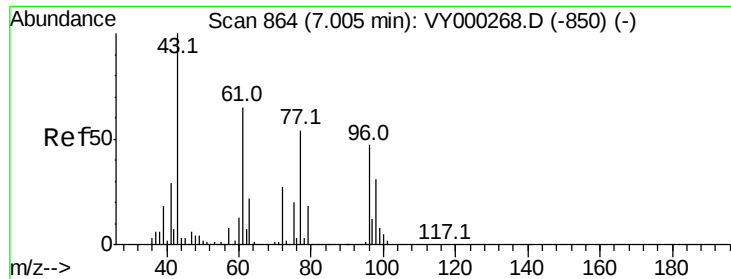
0

Time-->

5.90 6.00 6.10

6.04





#25

2-Butanone

Concen: 27.095 ug/l

RT: 7.01 min Scan# 865

Delta R.T. 0.01 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

Instrument :

MSVOA_Y

ClientSampleId :

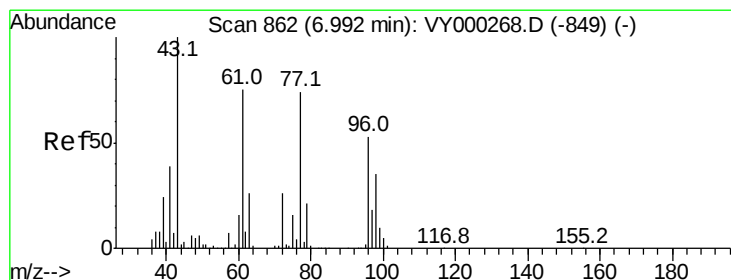
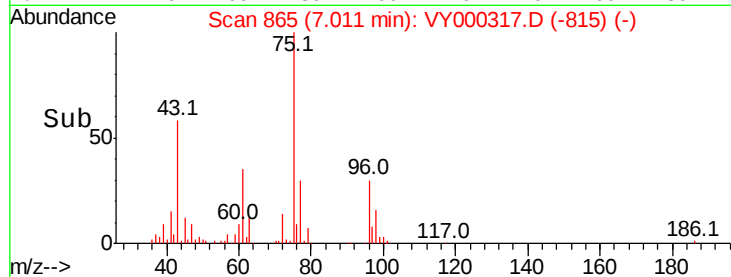
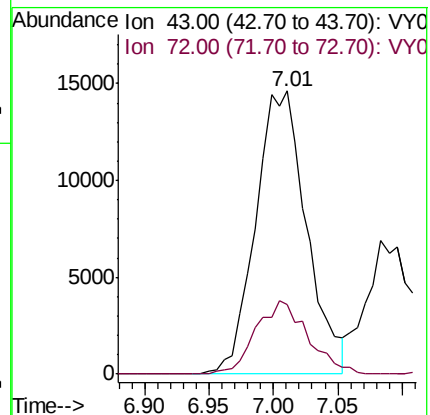
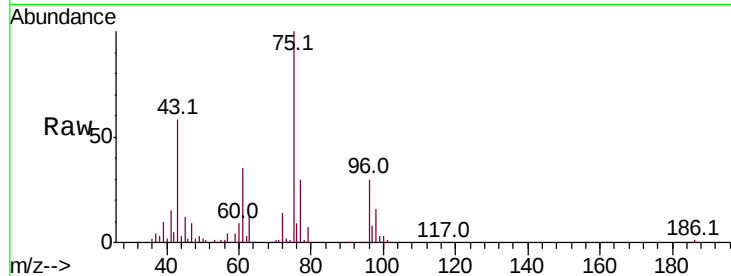
LOQ-SOIL-02-QT4-2019

Tot Ion: 43 Resp: 40103

Ion Ratio Lower Upper

43 100

72 24.8 21.4 32.2



#26

2,2-Dichloropropane

Concen: 6.211 ug/l

RT: 6.99 min Scan# 862

Delta R.T. -0.00 min

Lab File: VY000317.D

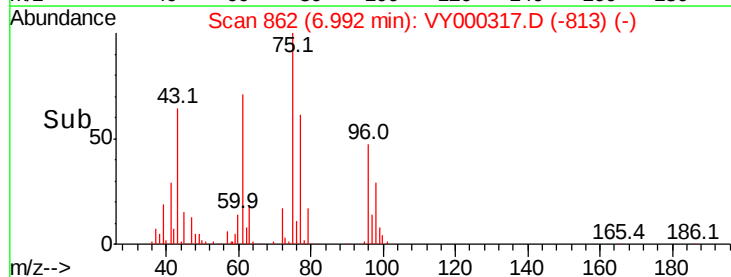
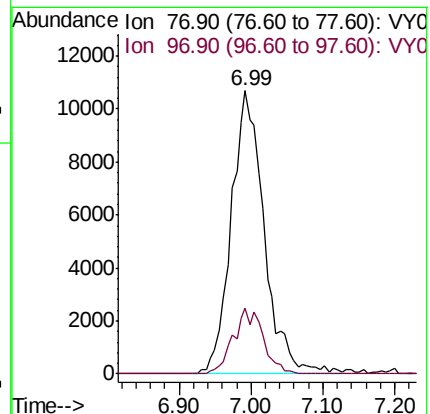
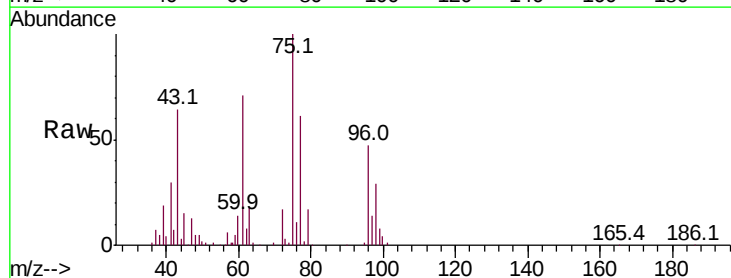
Acq: 15 Oct 2019 14:02

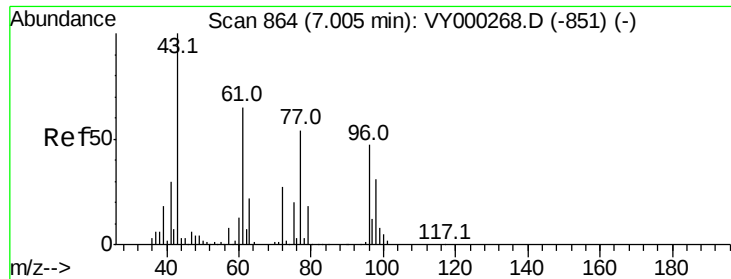
Tgt Ion: 77 Resp: 34014

Ion Ratio Lower Upper

77 100

97 21.0 11.6 34.7



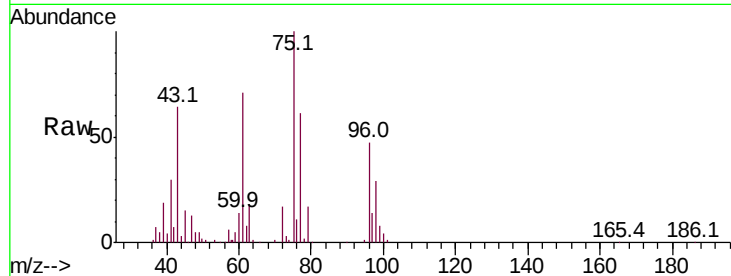


#27

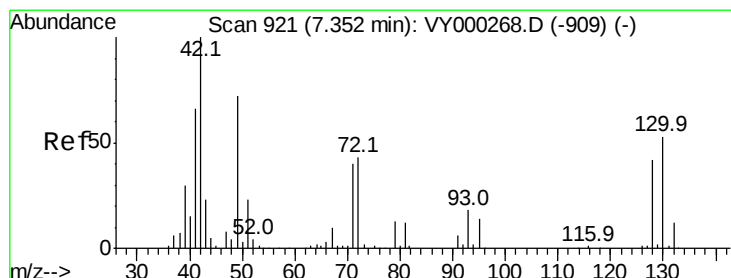
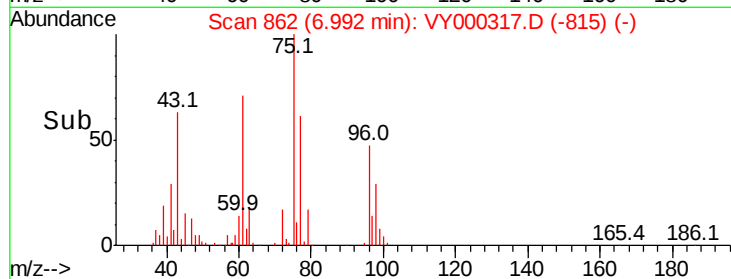
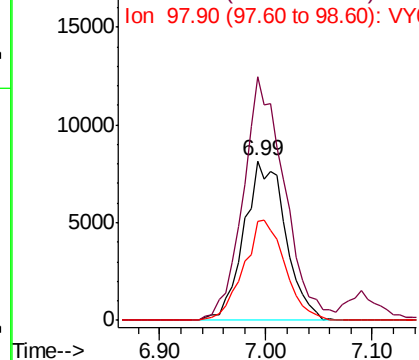
cis-1,2-Dichloroethene
Concen: 5.786 ug/l
RT: 6.99 min Scan# 862
Delta R.T. -0.01 min
Lab File: VY000317.D
Acq: 15 Oct 2019 14:02

Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion: 96 Resp: 22315
Ion Ratio Lower Upper
96 100
61 152.4 0.0 289.8
98 62.3 0.0 131.8



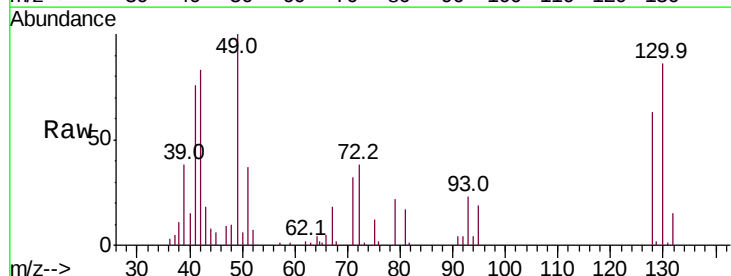
Abundance Ion 95.90 (95.60 to 96.60): VY0
Ion 60.90 (60.60 to 61.60): VY0
Ion 97.90 (97.60 to 98.60): VY0



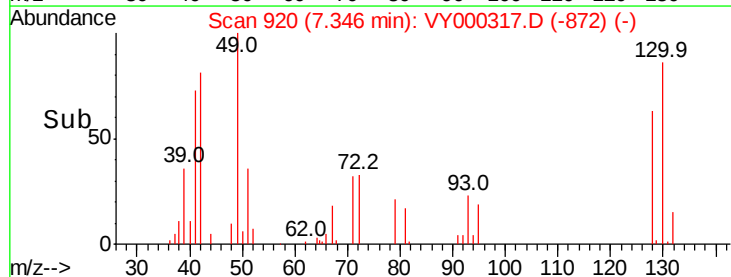
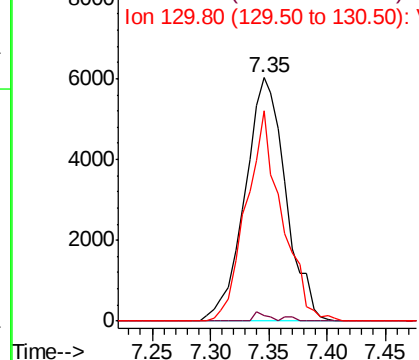
#28

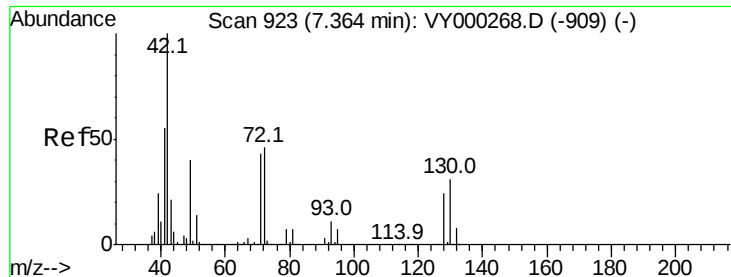
Bromochloromethane
Concen: 5.751 ug/l
RT: 7.35 min Scan# 920
Delta R.T. -0.01 min
Lab File: VY000317.D
Acq: 15 Oct 2019 14:02

Tgt Ion: 49 Resp: 14673
Ion Ratio Lower Upper
49 100
129 1.1 0.0 4.0
130 76.0 58.2 87.2



Abundance Ion 48.90 (48.60 to 49.60): VY0
Ion 128.80 (128.50 to 129.50): VY0
Ion 129.80 (129.50 to 130.50): VY0





#29

Tetrahydrofuran

Concen: 27.259 ug/l

RT: 7.36 min Scan# 923

Delta R.T. -0.00 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

Instrument :

MSVOA_Y

ClientSampleId :

LOQ-SOIL-02-QT4-2019

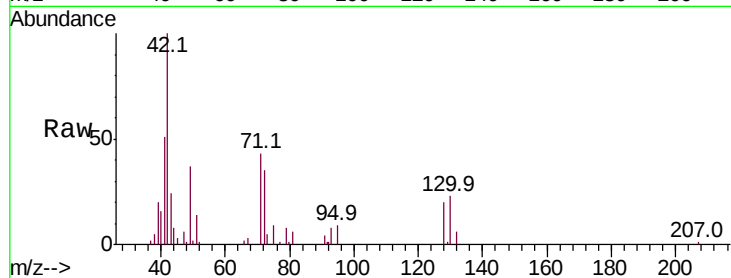
Tot Ion: 42 Resp: 24451

Ion Ratio Lower Upper

42 100

72 44.1 34.5 51.7

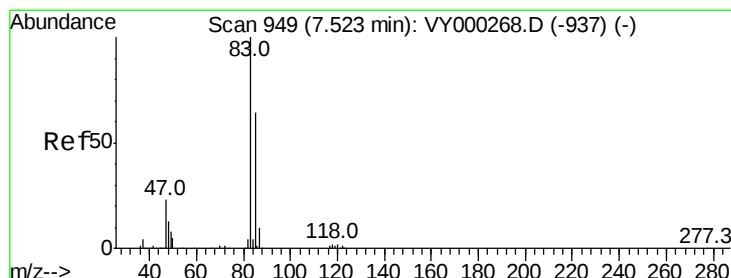
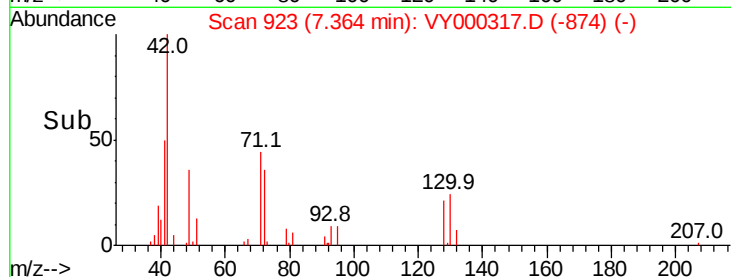
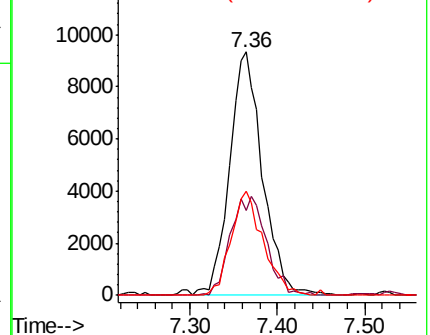
71 41.6 32.7 49.1



Abundance Ion 42.00 (41.70 to 42.70): VY0

Ion 72.00 (71.70 to 72.70): VY0

Ion 71.00 (70.70 to 71.70): VY0



#30

Chloroform

Concen: 5.724 ug/l

RT: 7.52 min Scan# 948

Delta R.T. -0.01 min

Lab File: VY000317.D

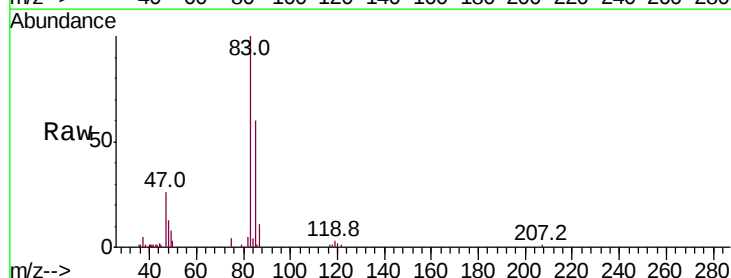
Acq: 15 Oct 2019 14:02

Tgt Ion: 83 Resp: 34260

Ion Ratio Lower Upper

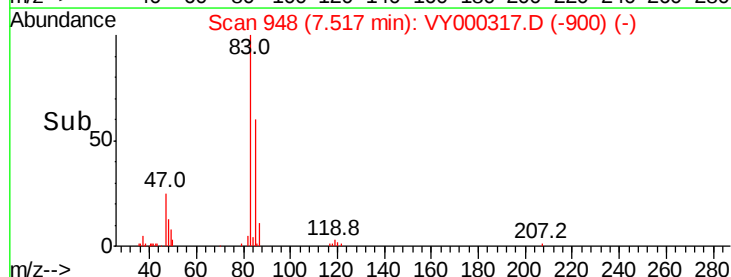
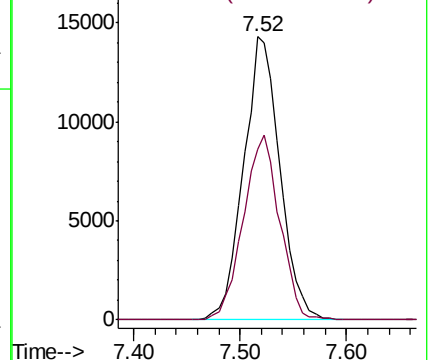
83 100

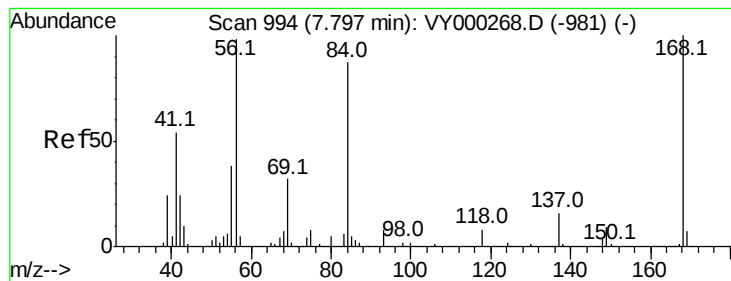
85 60.2 51.4 77.2



Abundance Ion 82.90 (82.60 to 83.60): VY0

Ion 84.90 (84.60 to 85.60): VY0





#31

Cyclohexane

Concen: 6.176 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.00 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

Instrument :

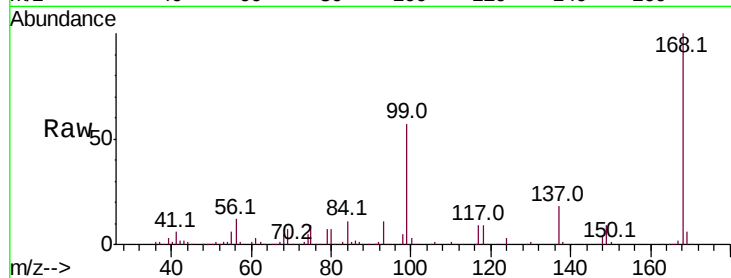
MSVOA_Y

ClientSampleId :

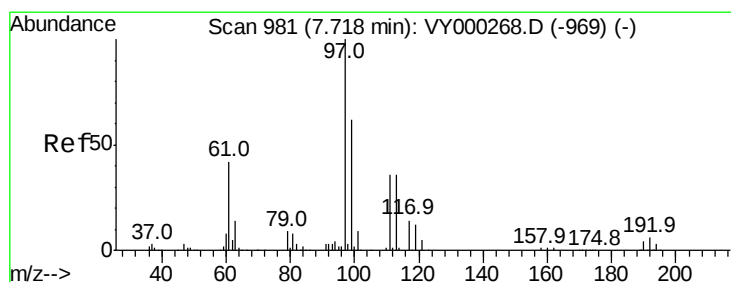
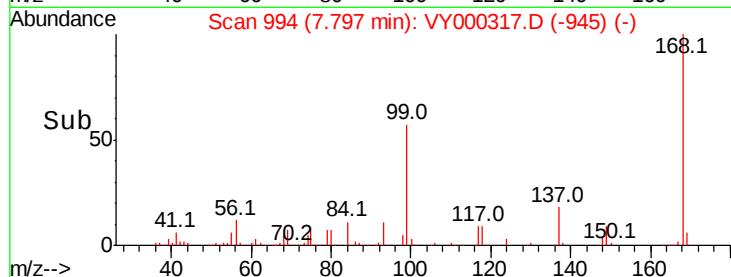
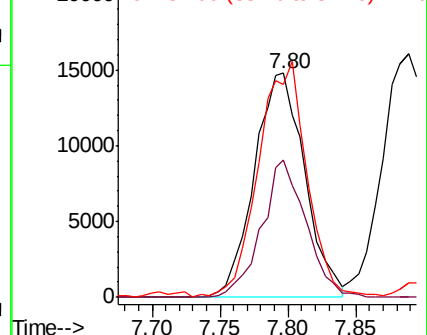
LOQ-SOIL-02-QT4-2019

Tot Ion: 56 Resp: 38335

Ion	Ratio	Lower	Upper
56	100		
69	61.3	26.3	39.5#
84	94.8	70.8	106.2



Abundance Ion 56.00 (55.70 to 56.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 84.00 (83.70 to 84.70): VY0



#32

1,1,1-Trichloroethane

Concen: 5.631 ug/l

RT: 7.71 min Scan# 980

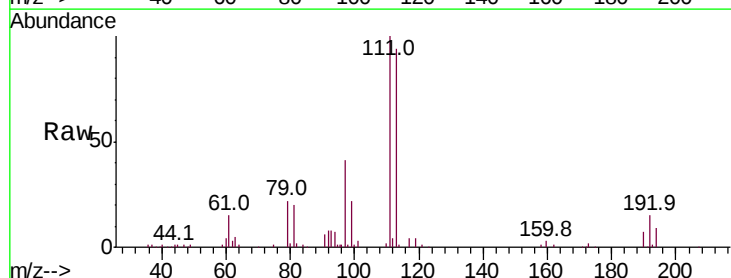
Delta R.T. -0.01 min

Lab File: VY000317.D

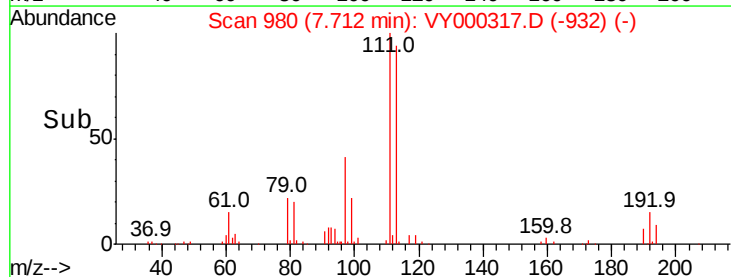
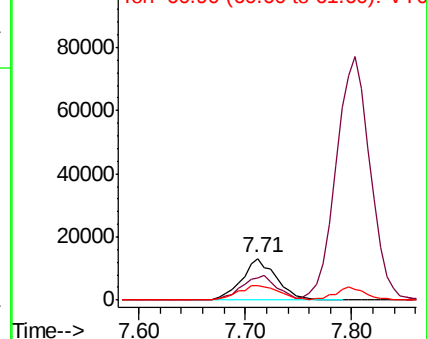
Acq: 15 Oct 2019 14:02

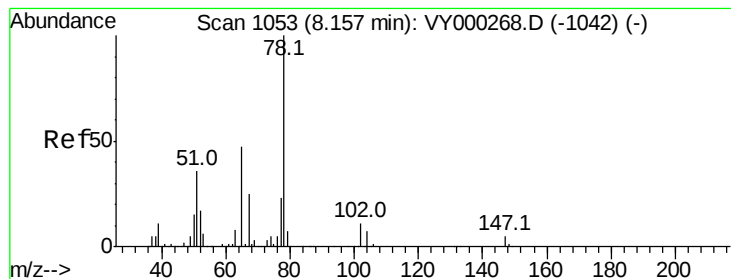
Tgt Ion: 97 Resp: 29960

Ion	Ratio	Lower	Upper
97	100		
99	60.0	51.7	77.5
61	42.0	34.5	51.7



Abundance Ion 96.90 (96.60 to 97.60): VY0
Ion 98.90 (98.60 to 99.60): VY0
Ion 60.90 (60.60 to 61.60): VY0





#33

1,2-Dichloroethane-d4

Concen: 54.517 ug/l

RT: 8.16 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

Instrument :

MSVOA_Y

ClientSampleId :

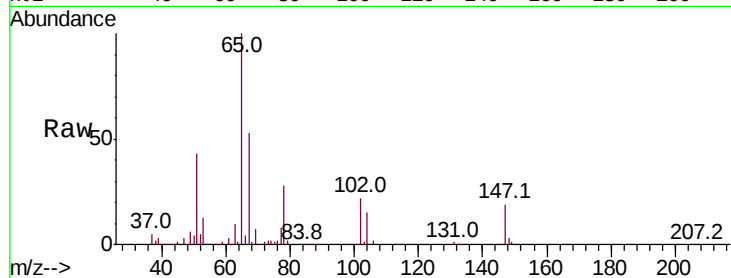
LOQ-SOIL-02-QT4-2019

Tot Ion: 65 Resp: 176876

Ion Ratio Lower Upper

65 100

67 53.4 0.0 109.4



Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0

8.16

80000

60000

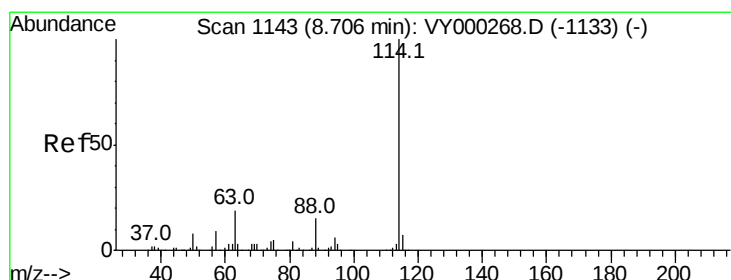
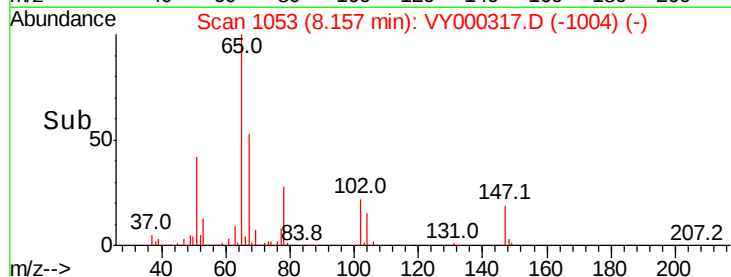
40000

20000

0

8.10 8.20

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.70 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

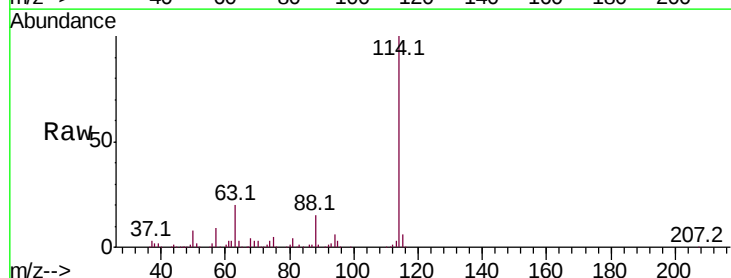
Tgt Ion: 114 Resp: 508629

Ion Ratio Lower Upper

114 100

63 20.1 0.0 37.2

88 15.3 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0

8.70

300000

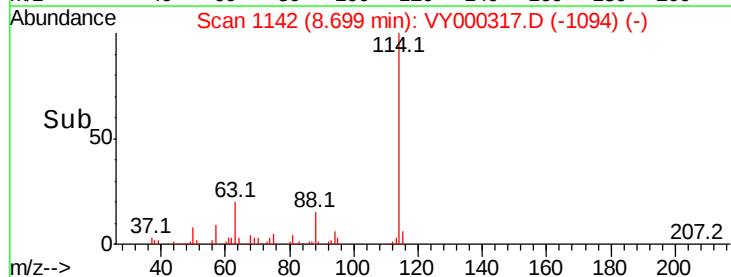
200000

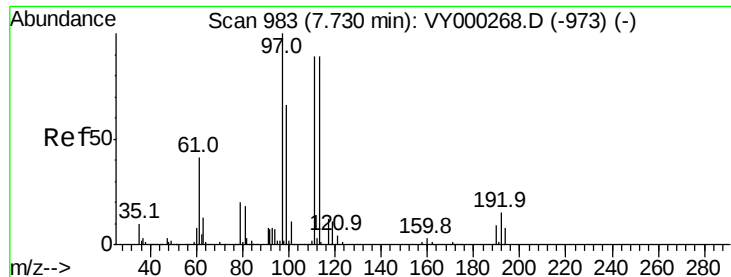
100000

0

8.60 8.70 8.80

Time-->





#35

Dibromofluoromethane

Concen: 50.319 ug/l

RT: 7.74 min Scan# 984

Delta R.T. 0.01 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

Instrument :

MSVOA_Y

ClientSampleId :

LOQ-SOIL-02-QT4-2019

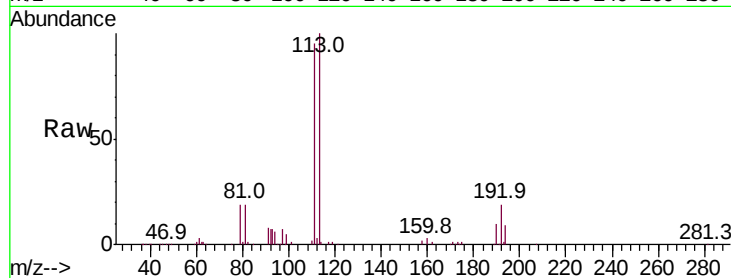
Tot Ion:113 Resp: 154384

Ion Ratio Lower Upper

113 100

111 102.4 81.6 122.4

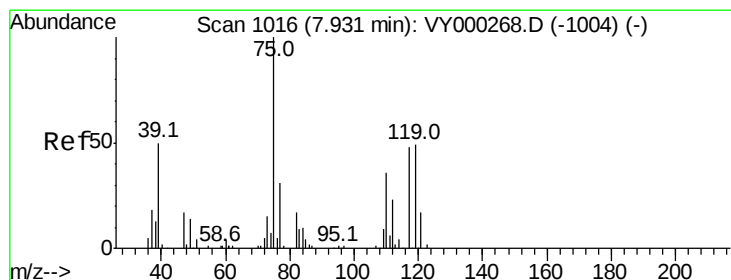
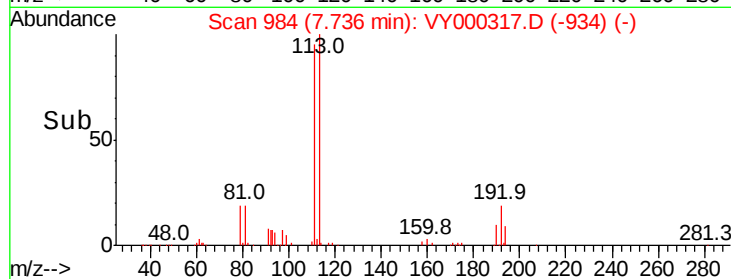
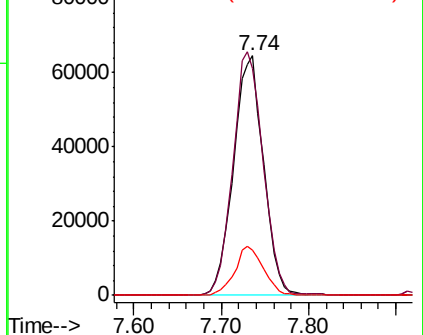
192 19.3 15.3 22.9



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: 5.581 ug/l

RT: 7.92 min Scan# 1015

Delta R.T. -0.01 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

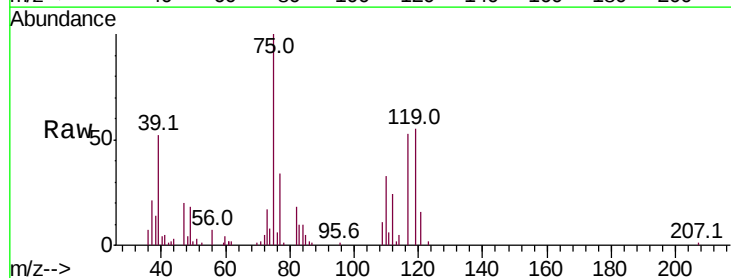
Tgt Ion: 75 Resp: 27794

Ion Ratio Lower Upper

75 100

110 35.2 18.4 55.4

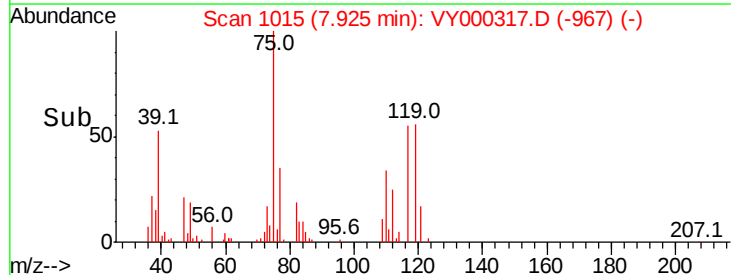
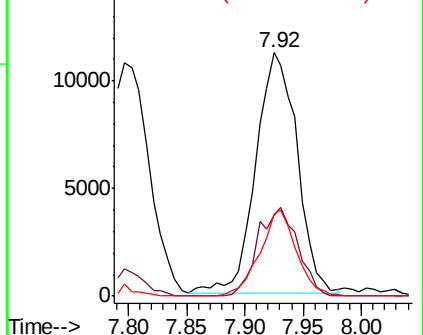
77 31.5 25.0 37.6

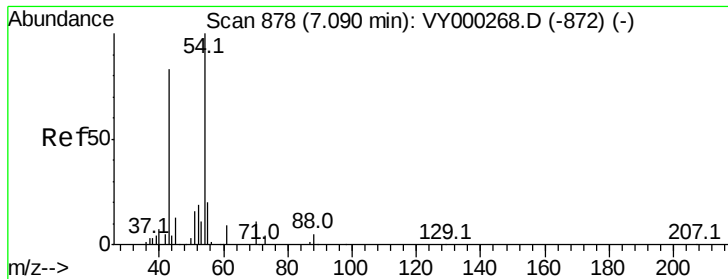


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VY0

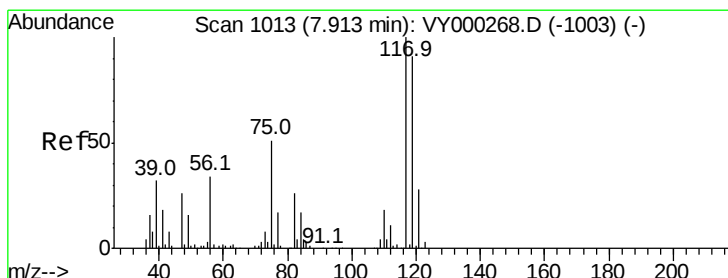
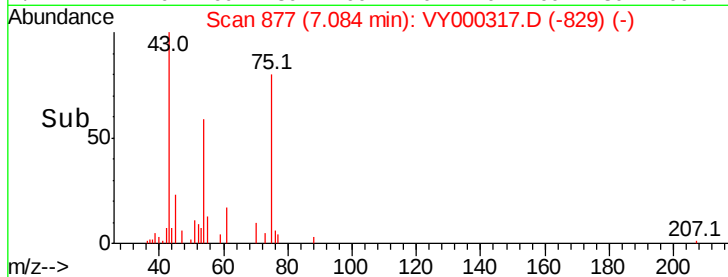
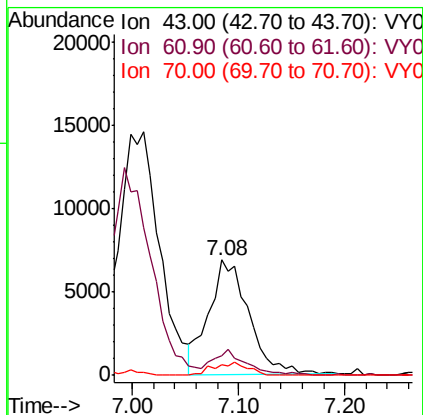
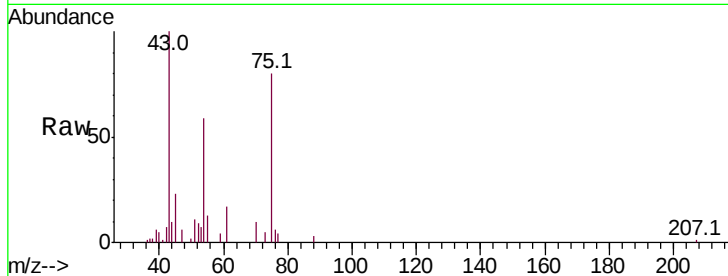




#37
Ethyl Acetate
Concen: 6.132 ug/l
RT: 7.08 min Scan# 877
Delta R.T. -0.01 min
Lab File: VY000317.D
Acq: 15 Oct 2019 14:02

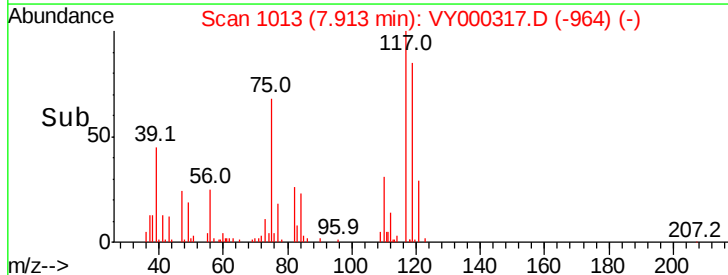
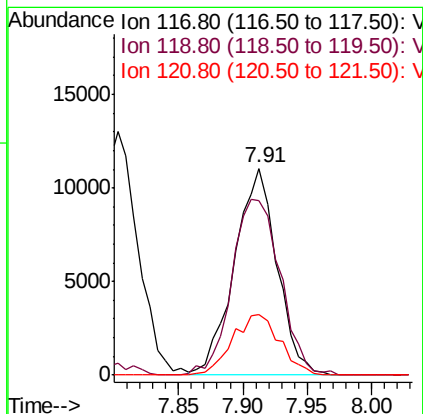
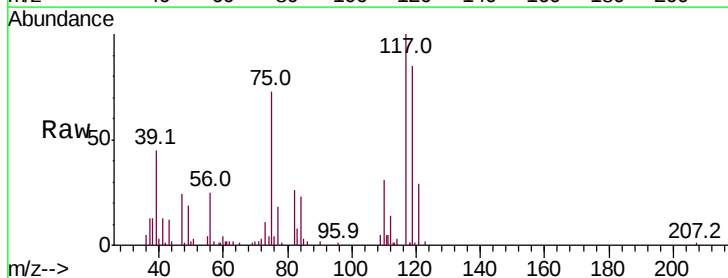
Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT4-2019

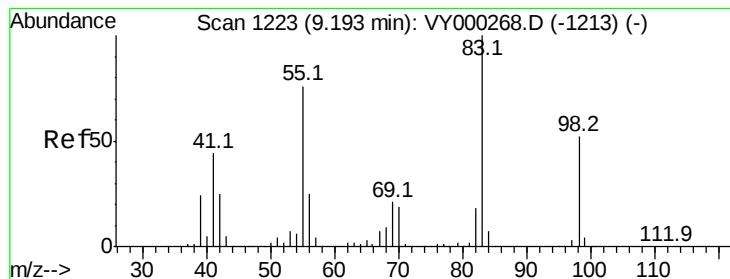
Tot Ion: 43 Resp: 18082
Ion Ratio Lower Upper
43 100
61 15.7 12.1 18.1
70 9.8 8.7 13.1



#38
Carbon Tetrachloride
Concen: 5.259 ug/l
RT: 7.91 min Scan# 1013
Delta R.T. -0.00 min
Lab File: VY000317.D
Acq: 15 Oct 2019 14:02

Tgt Ion: 117 Resp: 25359
Ion Ratio Lower Upper
117 100
119 84.7 72.8 109.2
121 29.5 22.2 33.2

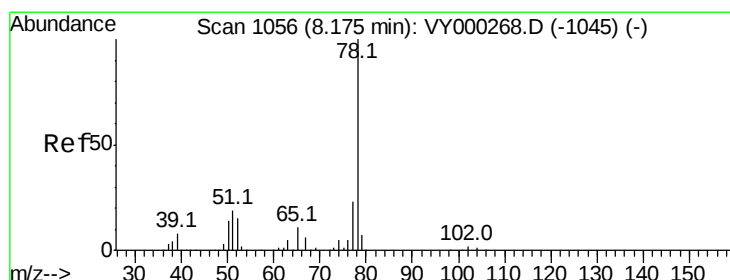
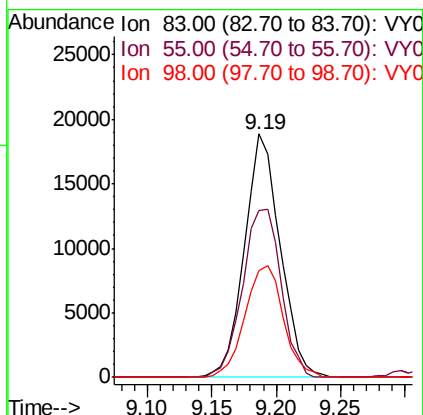
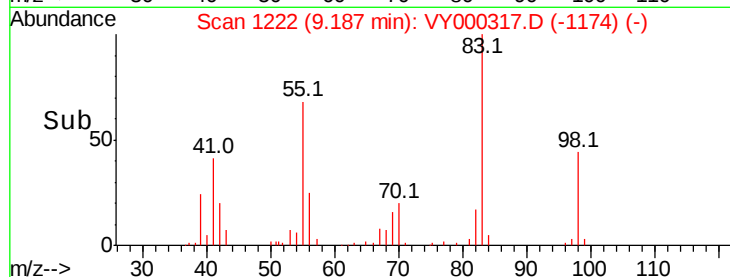
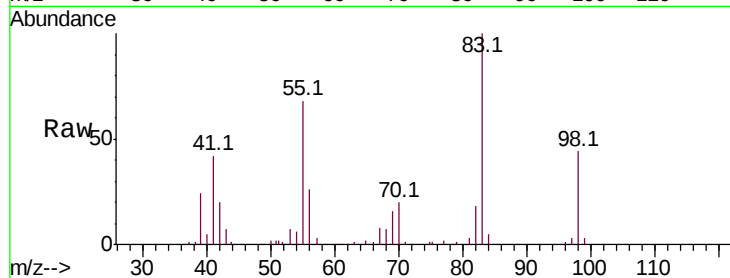




#39
Methvlcvclohexane
Concen: 5.530 ug/l
RT: 9.19 min Scan# 1222
Delta R.T. -0.01 min
Lab File: VY000317.D
Acq: 15 Oct 2019 14:02

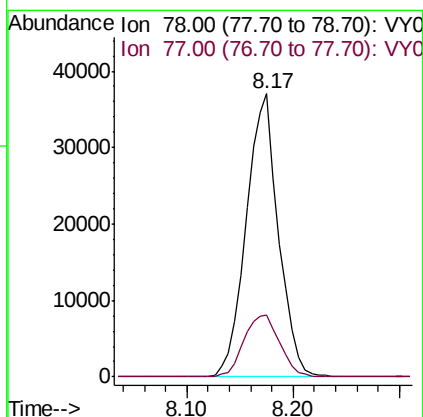
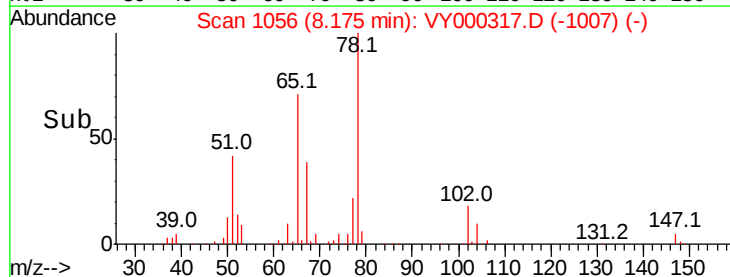
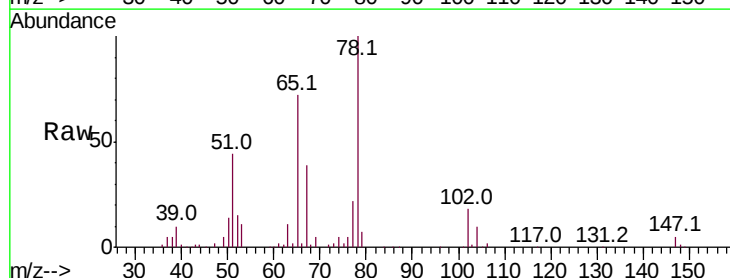
Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT4-2019

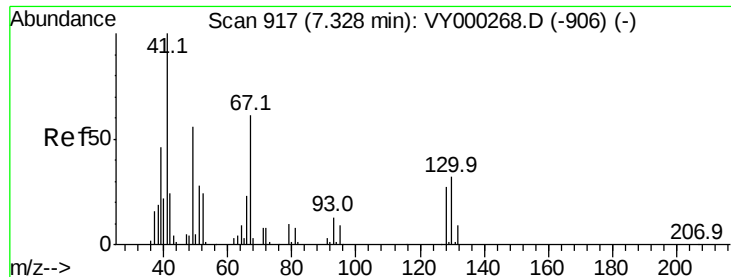
Tot Ion: 83 Resp: 36043
Ion Ratio Lower Upper
83 100
55 68.5 60.9 91.3
98 43.8 41.8 62.6



#40
Benzene
Concen: 5.468 ug/l
RT: 8.17 min Scan# 1056
Delta R.T. -0.00 min
Lab File: VY000317.D
Acq: 15 Oct 2019 14:02

Tgt Ion: 78 Resp: 78683
Ion Ratio Lower Upper
78 100
77 22.0 18.8 28.2

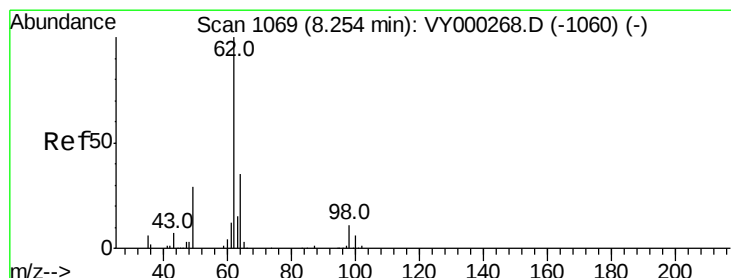
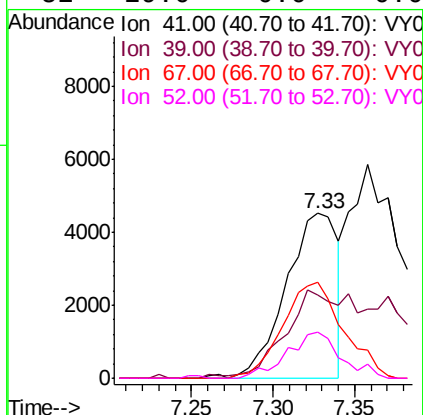
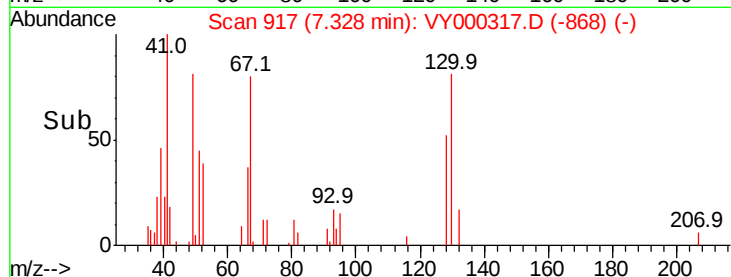
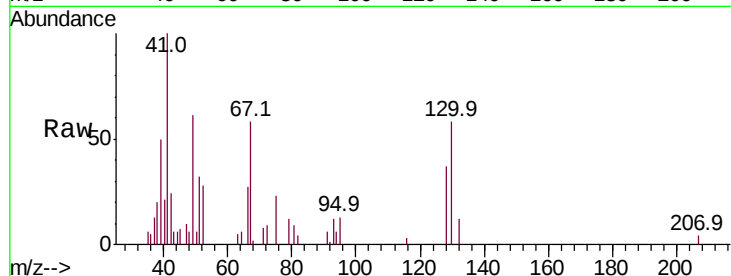




#41
Methacrylonitrile
Concen: 7.098 ug/l
RT: 7.33 min Scan# 917
Delta R.T. -0.00 min
Lab File: VY000317.D
Acq: 15 Oct 2019 14:02

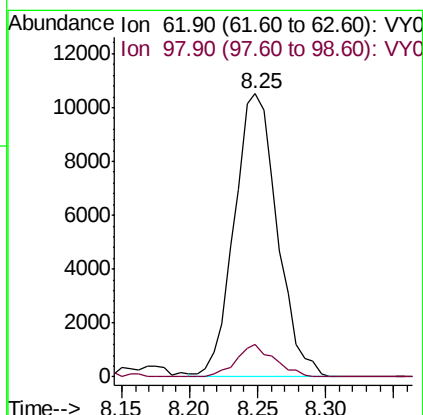
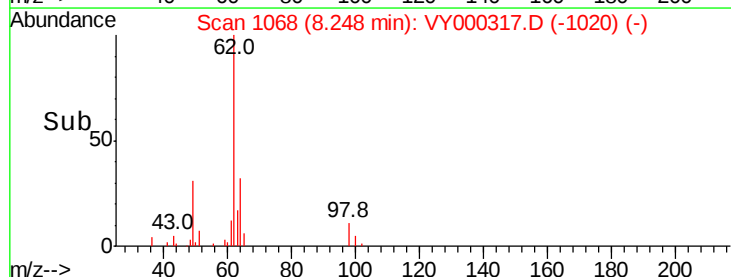
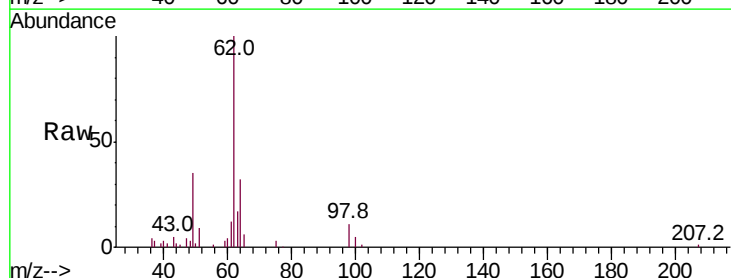
Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT4-2019

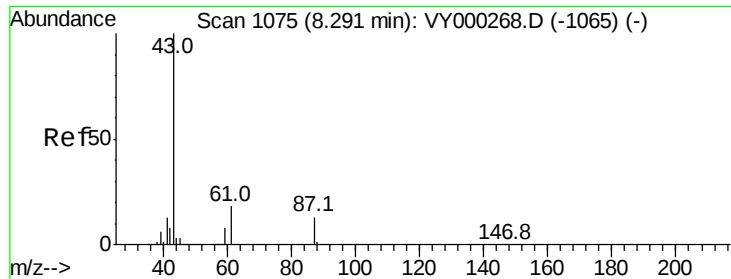
Tot Ion: 41 Resp: 9962
Ion Ratio Lower Upper
41 100
39 82.0 110.2 165.2#
67 67.7 0.0 0.0#
52 29.0 0.0 0.0#



#42
1,2-Dichloroethane
Concen: 5.643 ug/l
RT: 8.25 min Scan# 1068
Delta R.T. -0.01 min
Lab File: VY000317.D
Acq: 15 Oct 2019 14:02

Tgt Ion: 62 Resp: 23197
Ion Ratio Lower Upper
62 100
98 10.2 0.0 20.6





#43

Isopropyl Acetate

Concen: 5.411 ug/l

RT: 8.28 min Scan# 1074

Delta R.T. -0.01 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

Instrument :

MSVOA_Y

ClientSampleId :

LOQ-SOIL-02-QT4-2019

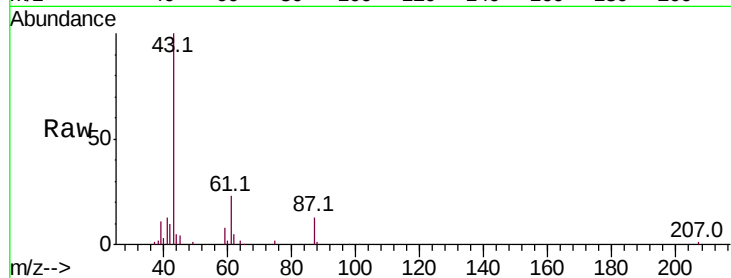
Tot Ion: 43 Resp: 30340

Ion Ratio Lower Upper

43 100

61 31.5 22.3 33.5

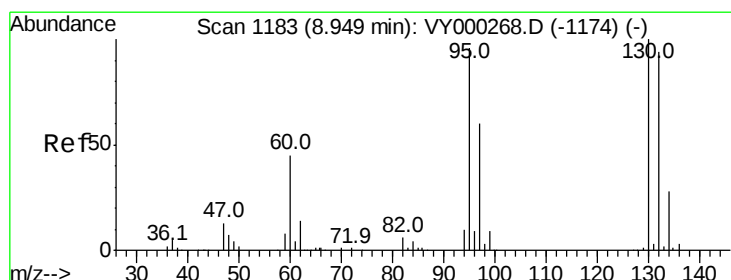
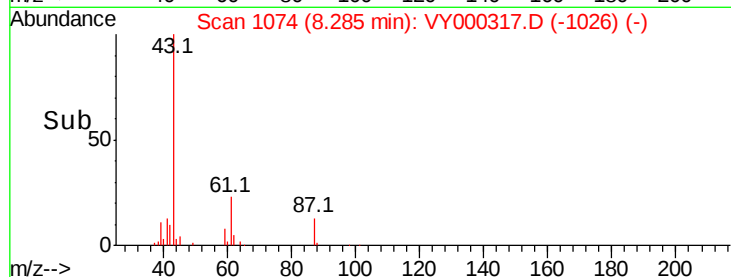
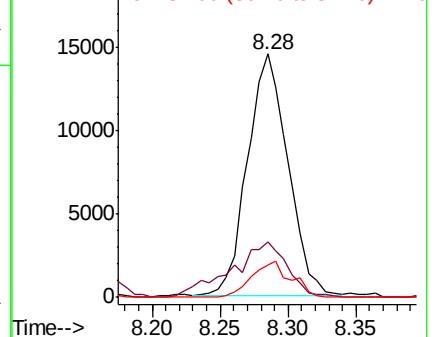
87 14.2 10.9 16.3



Abundance Ion 43.00 (42.70 to 43.70): VY000317.D (-1074) (-)

Ion 61.00 (60.70 to 61.70): VY000317.D (-1074) (-)

Ion 87.00 (86.70 to 87.70): VY000317.D (-1074) (-)



#44

Trichloroethene

Concen: 5.270 ug/l

RT: 8.95 min Scan# 1183

Delta R.T. -0.00 min

Lab File: VY000317.D

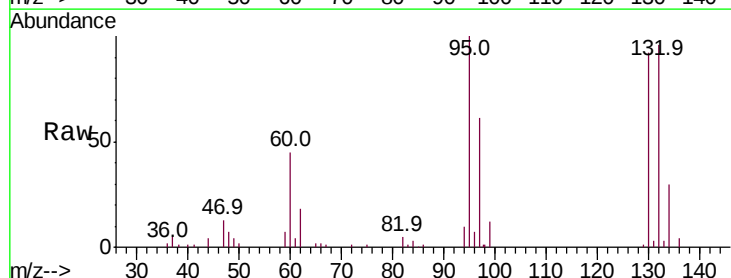
Acq: 15 Oct 2019 14:02

Tgt Ion:130 Resp: 21281

Ion Ratio Lower Upper

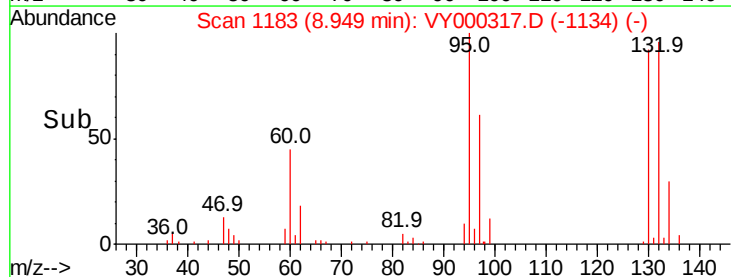
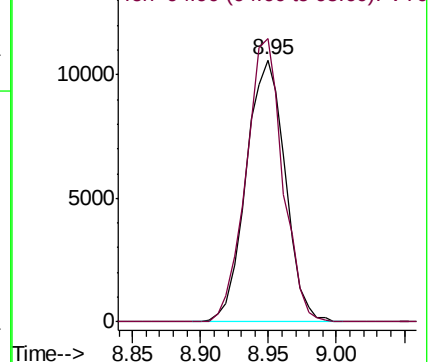
130 100

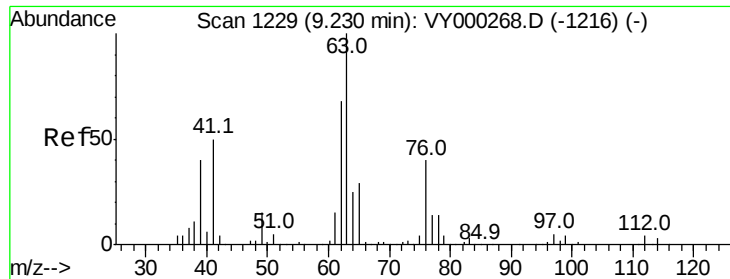
95 108.1 0.0 191.4



Abundance Ion 129.80 (129.50 to 130.50): VY000317.D (-1183) (-)

Ion 94.90 (94.60 to 95.60): VY000317.D (-1183) (-)





#45

1,2-Dichloropropane

Concen: 5.960 ug/l

RT: 9.22 min Scan# 1228

Delta R.T. -0.01 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

Instrument :

MSVOA_Y

ClientSampleId :

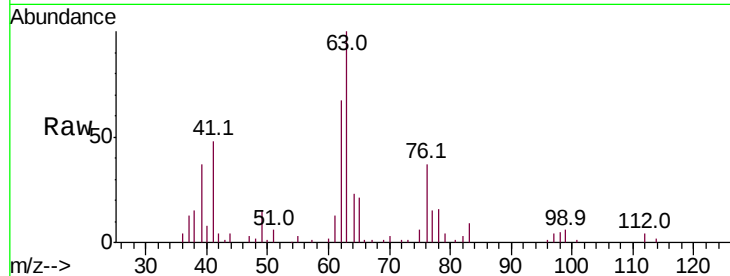
LOQ-SOIL-02-QT4-2019

Tot Ion: 63 Resp: 21050

Ion Ratio Lower Upper

63 100

65 21.5 23.2 34.8#



Abundance Ion 62.90 (62.60 to 63.60): VY0

Ion 64.90 (64.60 to 65.60): VY0

12000

10000

8000

6000

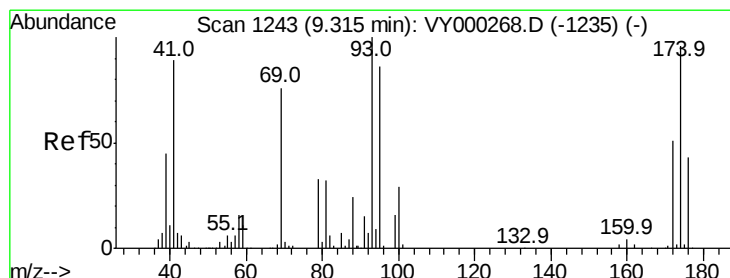
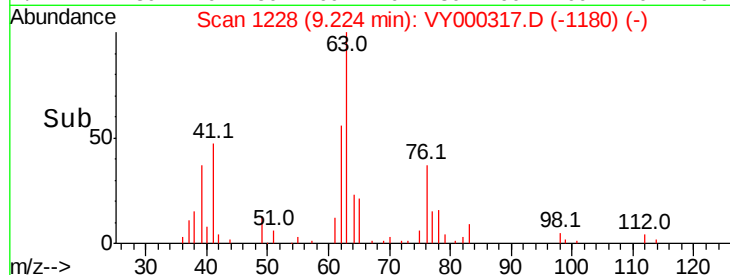
4000

2000

0

9.15 9.20 9.25 9.30

Time-->



#46

Dibromomethane

Concen: 5.640 ug/l

RT: 9.31 min Scan# 1243

Delta R.T. -0.00 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

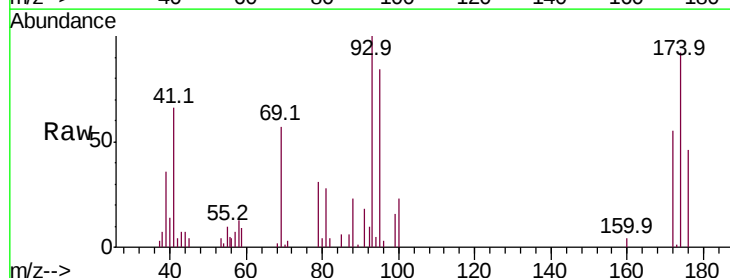
Tgt Ion: 93 Resp: 11134

Ion Ratio Lower Upper

93 100

95 83.7 68.2 102.2

174 91.3 79.8 119.6



Abundance Ion 92.80 (92.50 to 93.50): VY0

Ion 94.80 (94.50 to 95.50): VY0

Ion 173.70 (173.40 to 174.40): V

8000

6000

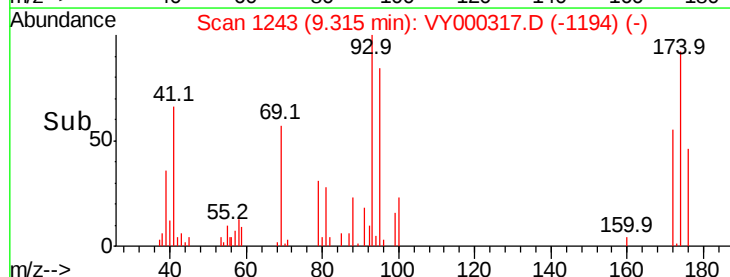
4000

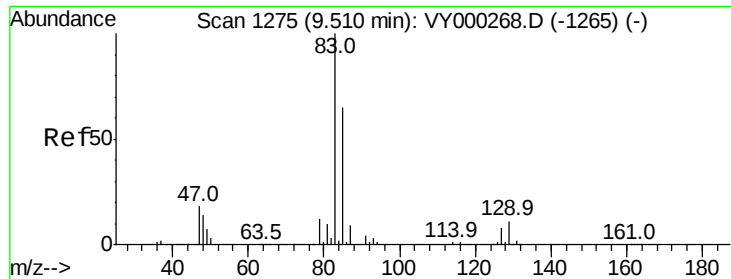
2000

0

9.25 9.30 9.35

Time-->





#47

Bromodichloromethane

Concen: 5.543 ug/l

RT: 9.50 min Scan# 1274

Delta R.T. -0.01 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

Instrument :

MSVOA_Y

ClientSampleId :

LOQ-SOIL-02-QT4-2019

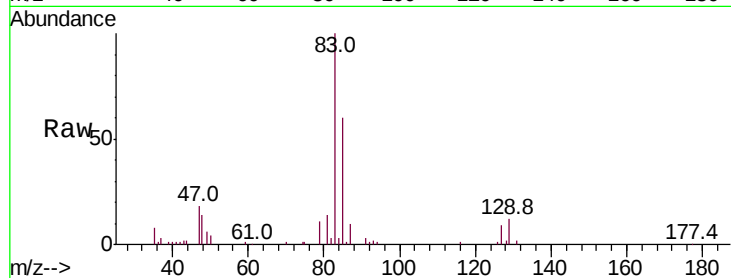
Tot Ion: 83 Resp: 25788

Ion Ratio Lower Upper

83 100

85 59.6 52.2 78.2

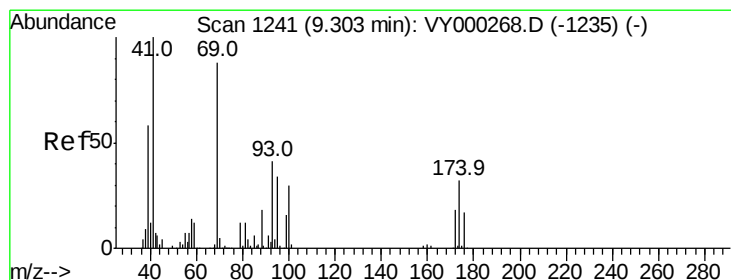
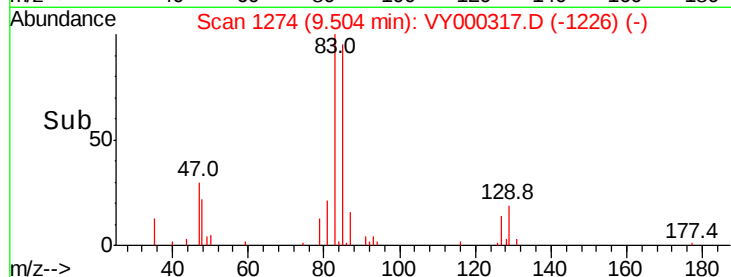
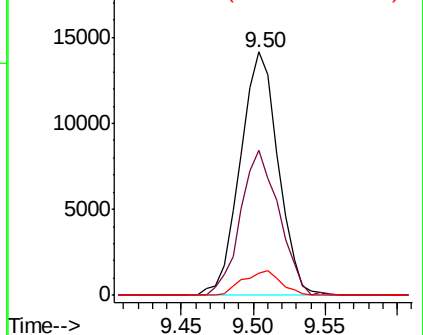
127 8.9 6.3 9.5



Abundance Ion 82.90 (82.60 to 83.60): VY0

Ion 84.90 (84.60 to 85.60): VY0

Ion 126.80 (126.50 to 127.50): VY0



#48

Methyl methacrylate

Concen: 5.968 ug/l

RT: 9.30 min Scan# 1241

Delta R.T. -0.00 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

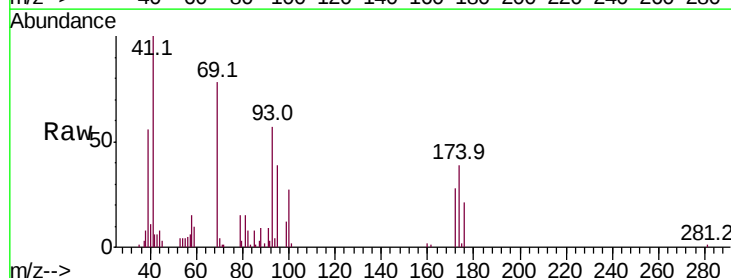
Tgt Ion: 41 Resp: 14664

Ion Ratio Lower Upper

41 100

69 80.1 70.0 105.0

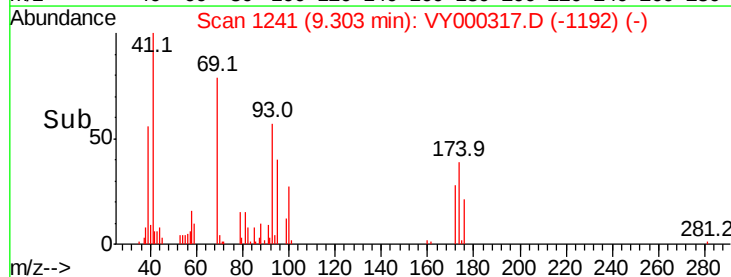
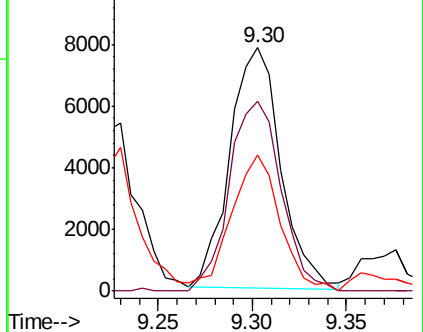
39 53.8 47.7 71.5

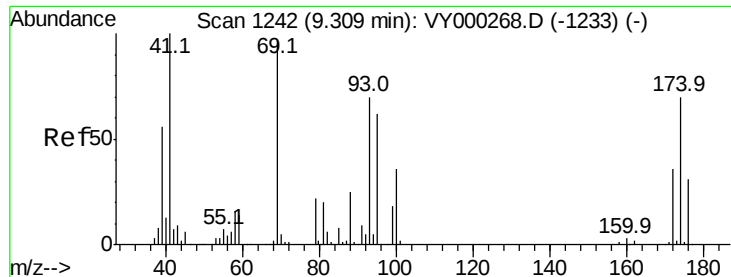


Abundance Ion 41.00 (40.70 to 41.70): VY0

Ion 69.00 (68.70 to 69.70): VY0

Ion 39.00 (38.70 to 39.70): VY0





#49

1,4-Dioxane

Concen: 91.280 ug/l

RT: 9.31 min Scan# 1243

Delta R.T. 0.01 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

Instrument :

MSVOA_Y

ClientSampleId :

LOQ-SOIL-02-QT4-2019

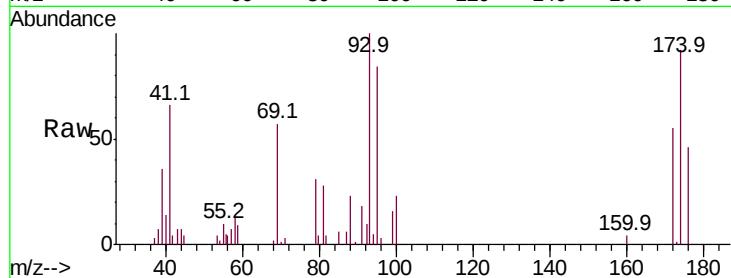
Tot Ion: 88 Resp: 2702

Ion Ratio Lower Upper

88 100

43 0.0 25.6 38.4#

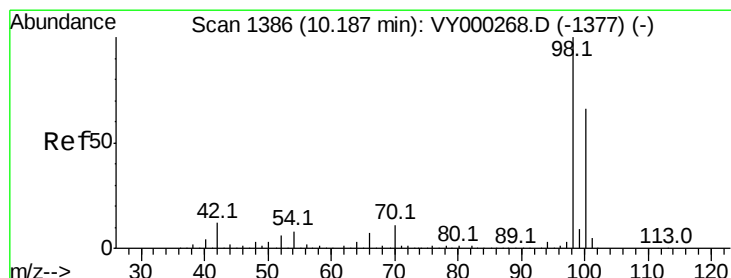
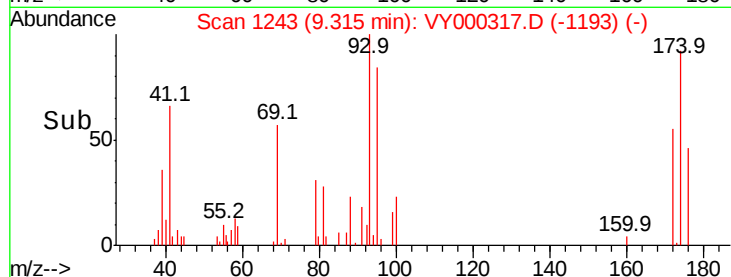
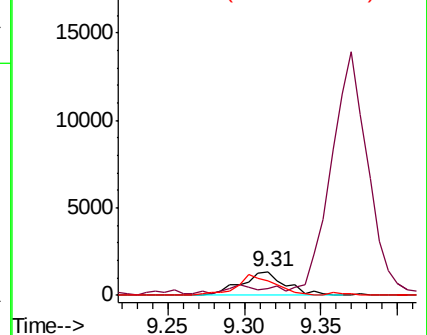
58 75.0 54.6 81.8



Abundance Ion 88.00 (87.70 to 88.70): VY0

Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#50

Toluene-d8

Concen: 51.779 ug/l

RT: 10.19 min Scan# 1386

Delta R.T. -0.00 min

Lab File: VY000317.D

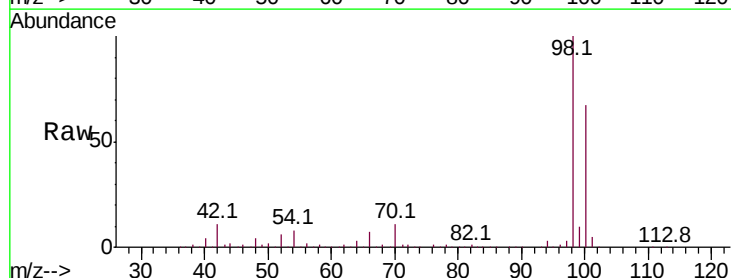
Acq: 15 Oct 2019 14:02

Tgt Ion: 98 Resp: 611103

Ion Ratio Lower Upper

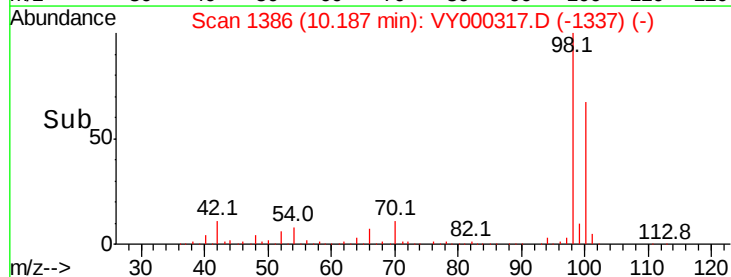
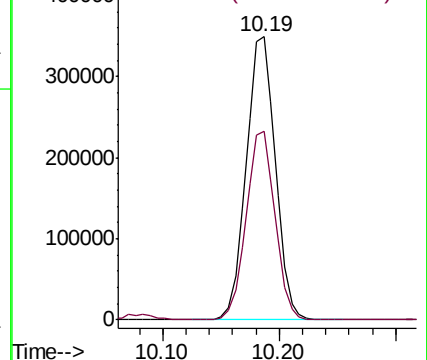
98 100

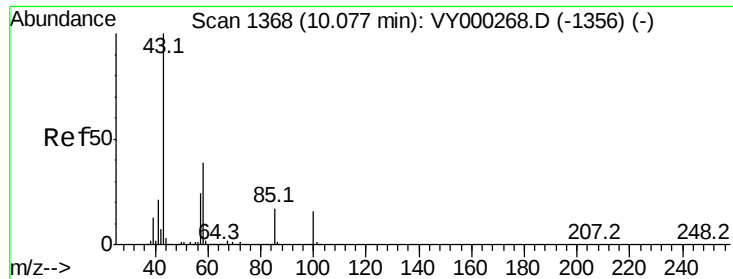
100 65.9 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY0





#51

4-Methyl-2-Pentanone

Concen: 28.969 ug/l

RT: 10.08 min Scan# 1368

Delta R.T. -0.00 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

Instrument :

MSVOA_Y

ClientSampleId :

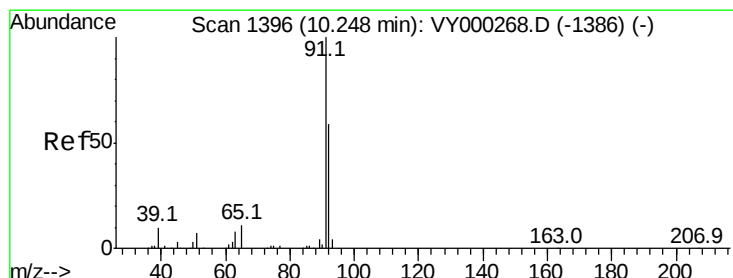
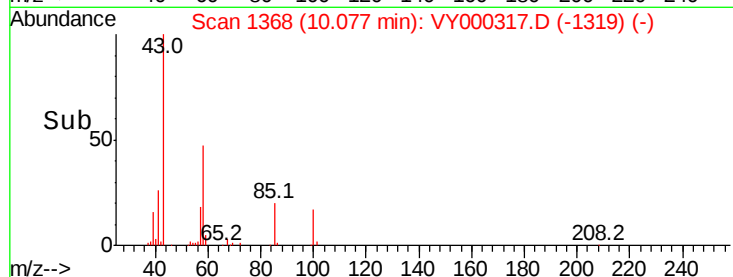
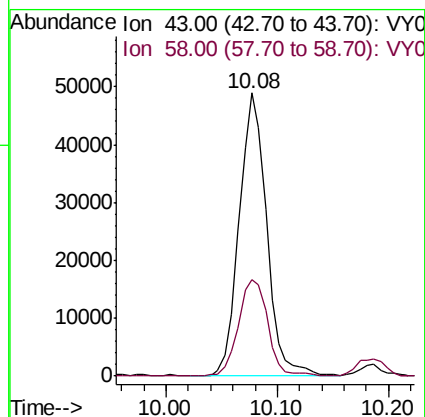
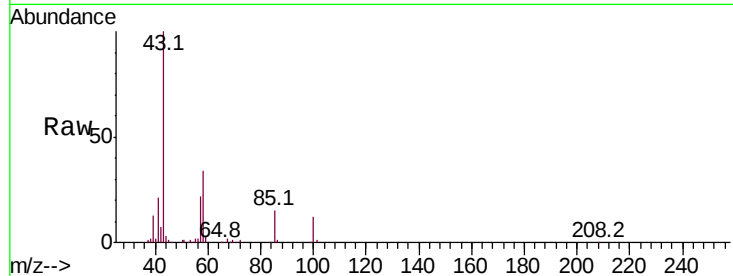
LOQ-SOIL-02-QT4-2019

Tot Ion: 43 Resp: 83772

Ion Ratio Lower Upper

43 100

58 36.6 31.0 46.6



#52

Toluene

Concen: 5.417 ug/l

RT: 10.25 min Scan# 1396

Delta R.T. -0.00 min

Lab File: VY000317.D

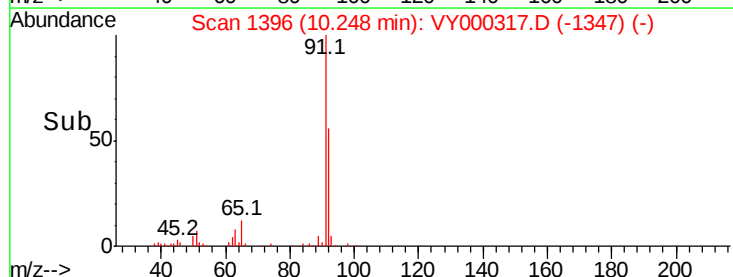
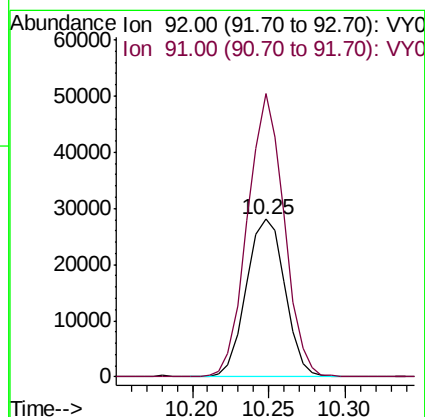
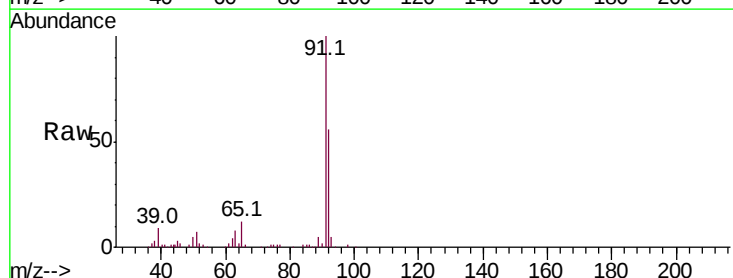
Acq: 15 Oct 2019 14:02

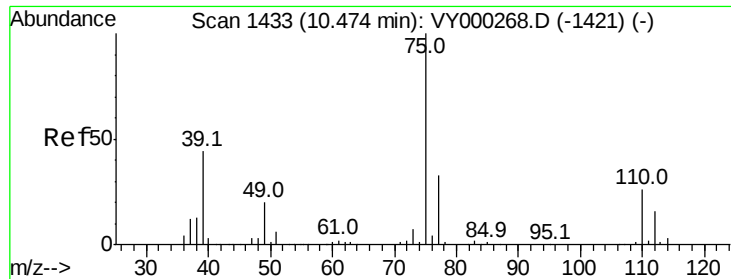
Tgt Ion: 92 Resp: 49496

Ion Ratio Lower Upper

92 100

91 169.5 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 5.303 ug/l

RT: 10.47 min Scan# 1432

Delta R.T. -0.01 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

Instrument :

MSVOA_Y

ClientSampleId :

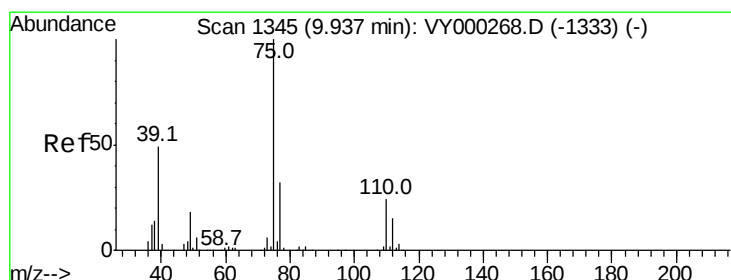
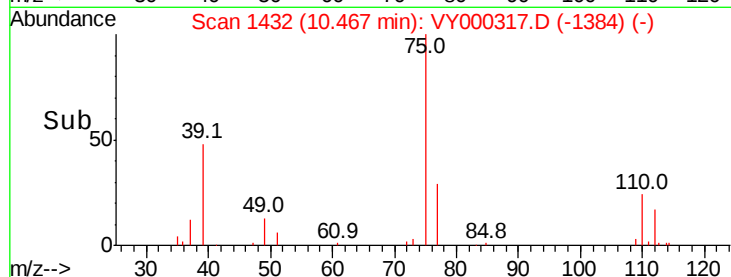
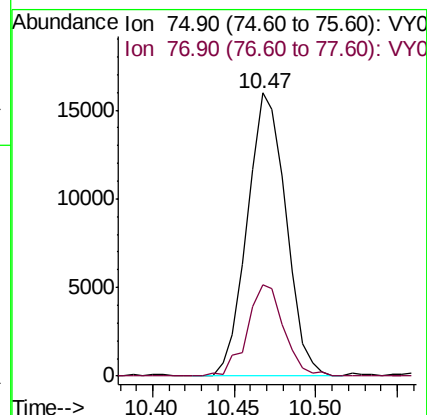
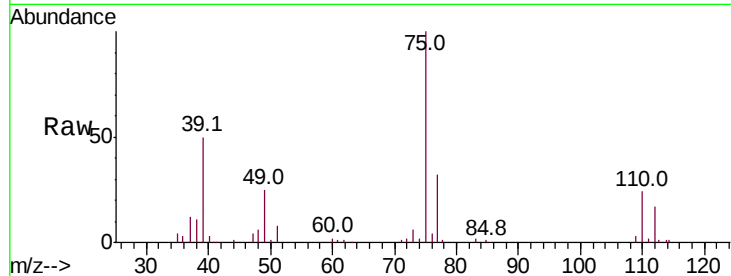
LOQ-SOIL-02-QT4-2019

Tot Ion: 75 Resp: 26444

Ion Ratio Lower Upper

75 100

77 32.2 26.0 39.0



#54

cis-1,3-Dichloropropene

Concen: 5.358 ug/l

RT: 9.94 min Scan# 1345

Delta R.T. -0.00 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

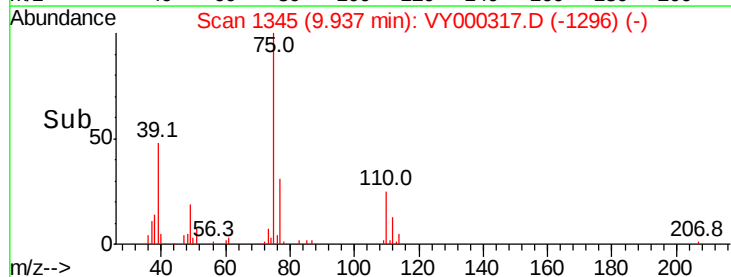
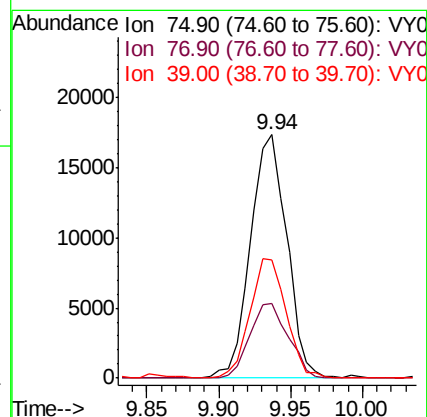
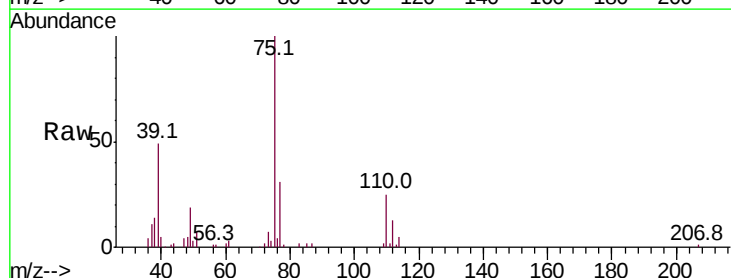
Tgt Ion: 75 Resp: 30339

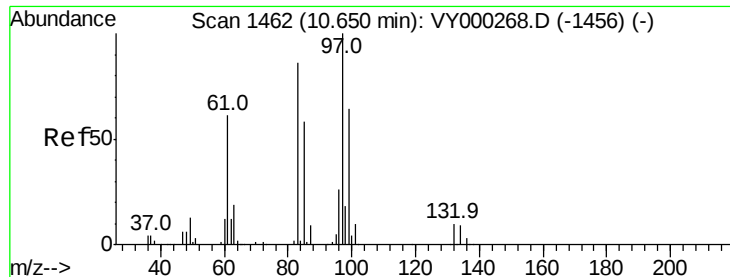
Ion Ratio Lower Upper

75 100

77 30.8 26.0 39.0

39 48.6 38.8 58.2

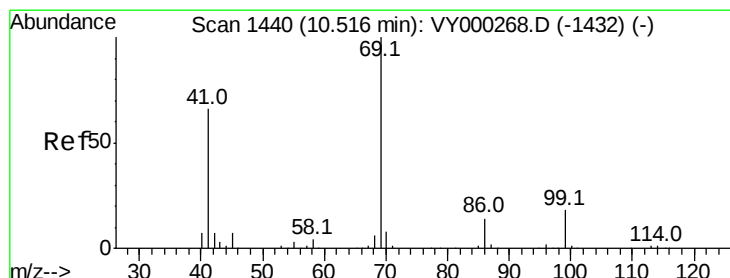
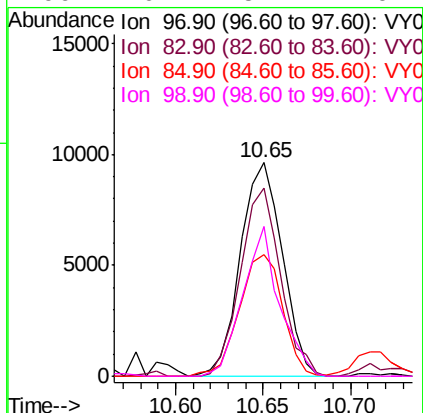
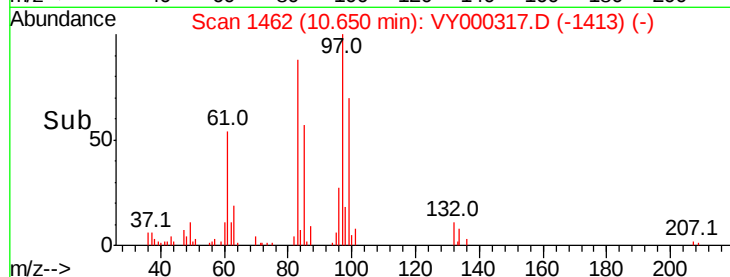
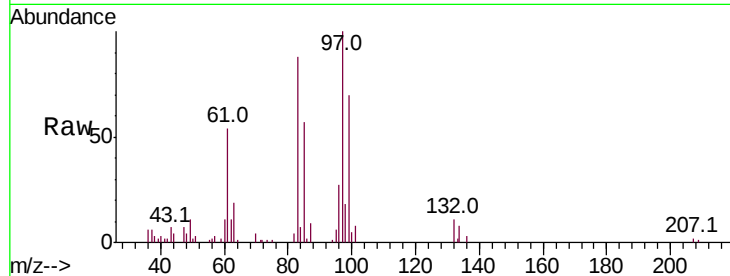




#55
 1,1,2-Trichloroethane
 Concen: 5.616 ug/l
 RT: 10.65 min Scan# 1462
 Delta R.T. -0.00 min
 Lab File: VY000317.D
 Acq: 15 Oct 2019 14:02

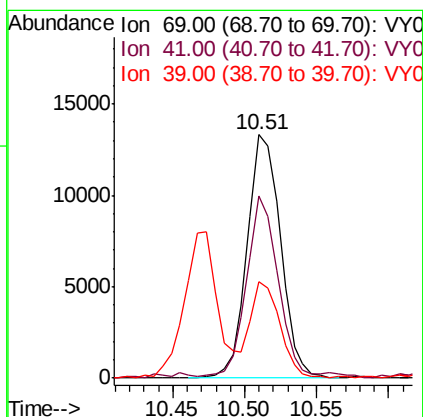
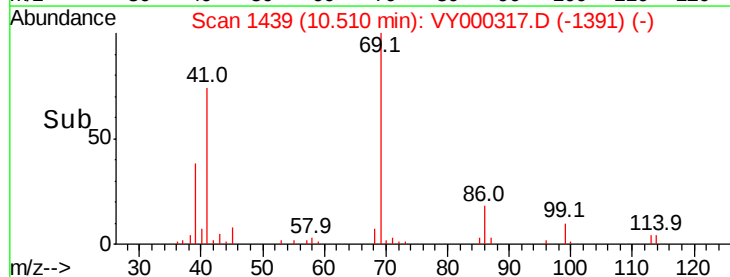
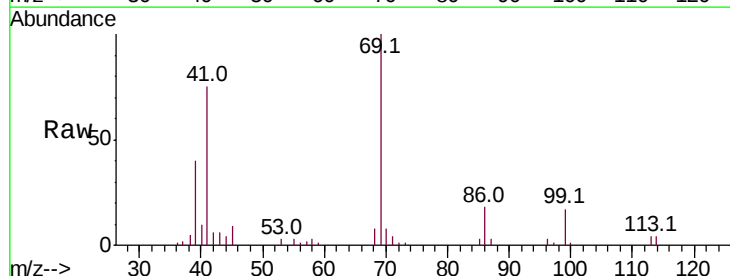
Instrument :
 MSVOA_Y
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

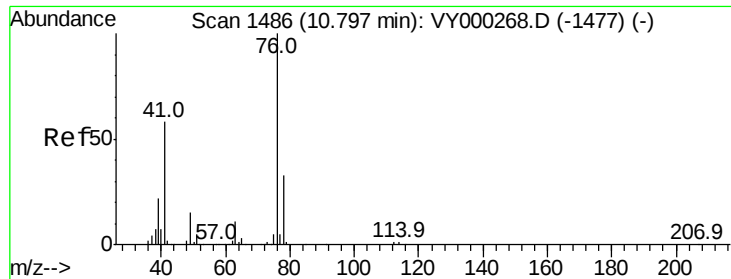
Tot Ion:	97	Resp:	16121
Ion	Ratio	Lower	Upper
97	100		
83	88.3	69.0	103.6
85	57.1	46.2	69.4
99	70.4	51.1	76.7



#56
 Ethyl methacrylate
 Concen: 5.212 ug/l
 RT: 10.51 min Scan# 1439
 Delta R.T. -0.01 min
 Lab File: VY000317.D
 Acq: 15 Oct 2019 14:02

Tgt Ion:	69	Resp:	21325
Ion	Ratio	Lower	Upper
69	100		
41	68.7	52.5	78.7
39	34.1	26.7	40.1





#57

1,3-Dichloropropane

Concen: 5.558 ug/l

RT: 10.79 min Scan# 1485

Delta R.T. -0.01 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

Instrument :

MSVOA_Y

ClientSampleId :

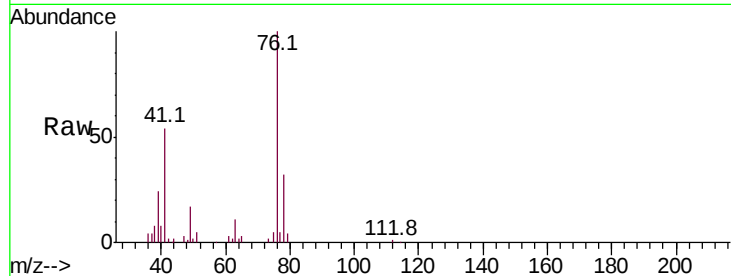
LOQ-SOIL-02-QT4-2019

Tot Ion: 76 Resp: 27400

Ion Ratio Lower Upper

76 100

78 30.3 26.2 39.2



Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0

20000

15000

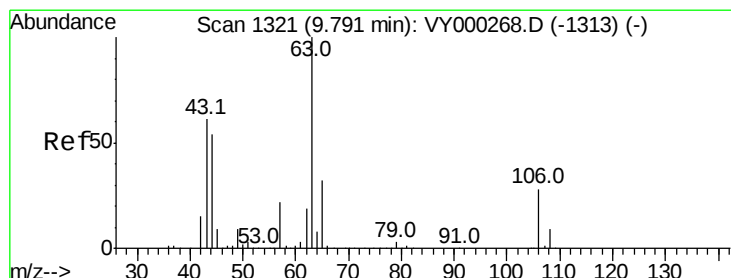
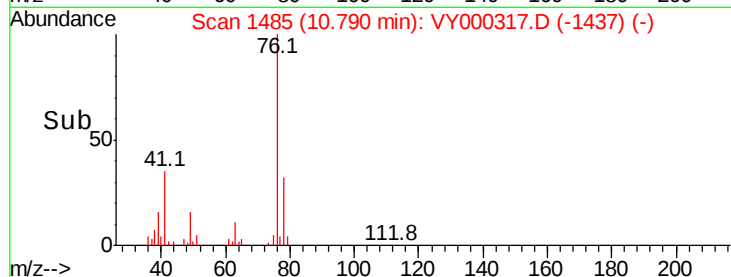
10000

5000

0

10.75 10.80 10.85

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 31.247 ug/l

RT: 9.79 min Scan# 1321

Delta R.T. -0.00 min

Lab File: VY000317.D

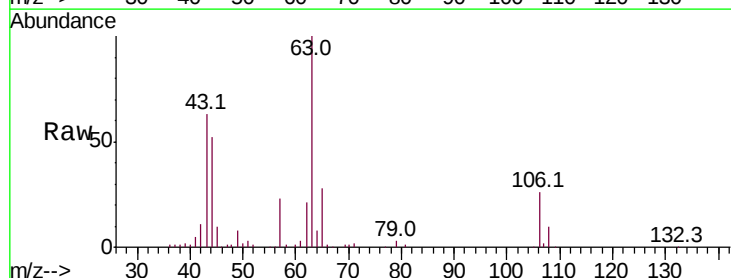
Acq: 15 Oct 2019 14:02

Tgt Ion: 63 Resp: 50993

Ion Ratio Lower Upper

63 100

106 29.6 23.0 34.4



Abundance Ion 62.90 (62.60 to 63.60): VY0

Ion 105.90 (105.60 to 106.60): V

30000

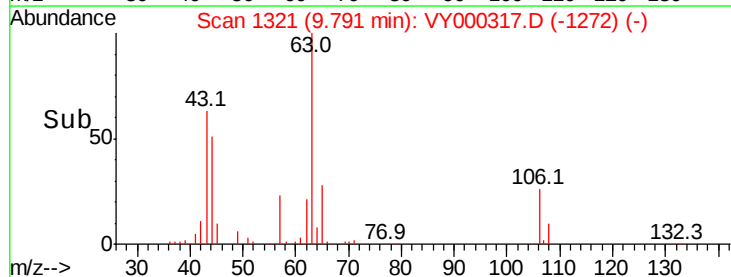
20000

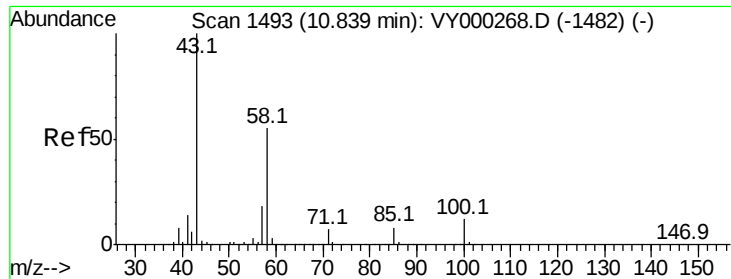
10000

0

9.70 9.75 9.80 9.85

Time-->

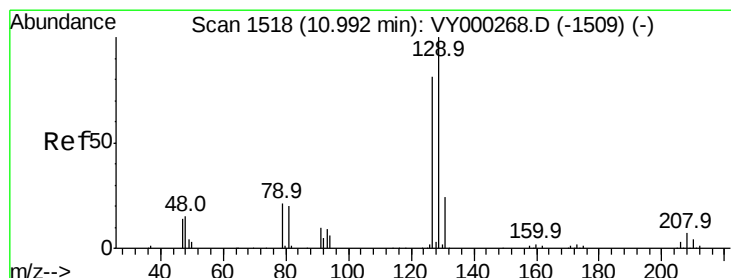
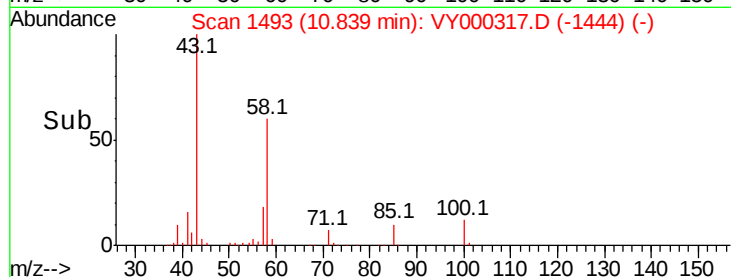
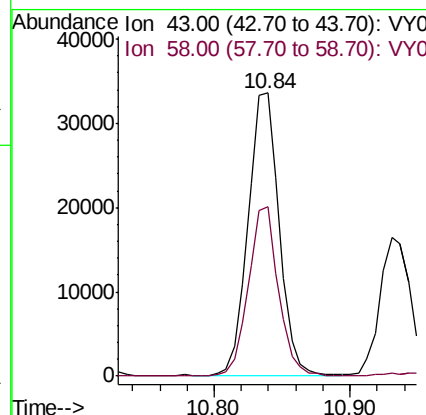
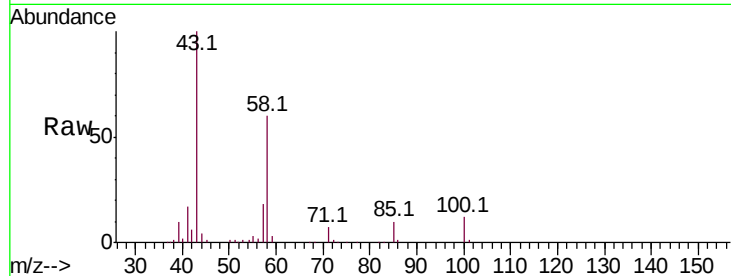




#59
2-Hexanone
Concen: 26.687 ug/l
RT: 10.84 min Scan# 1493
Delta R.T. -0.00 min
Lab File: VY000317.D
Acq: 15 Oct 2019 14:02

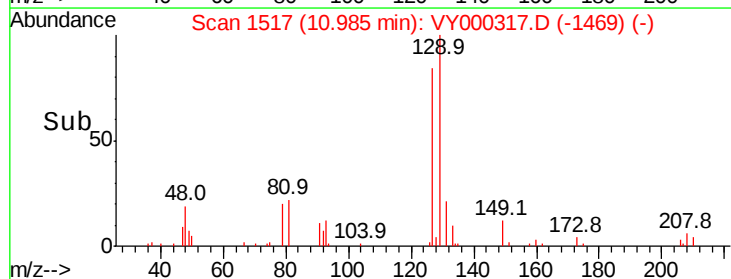
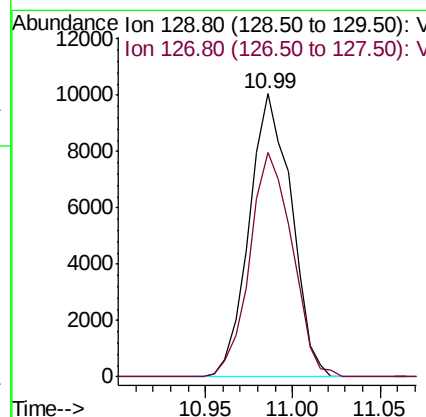
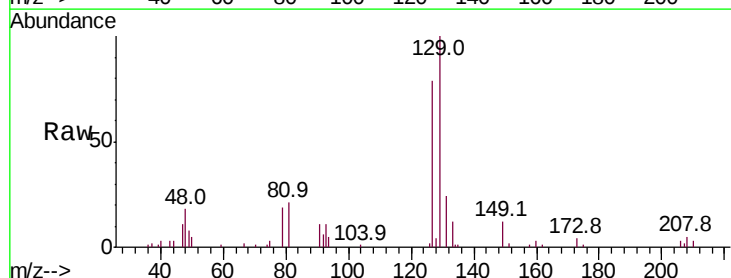
Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT4-2019

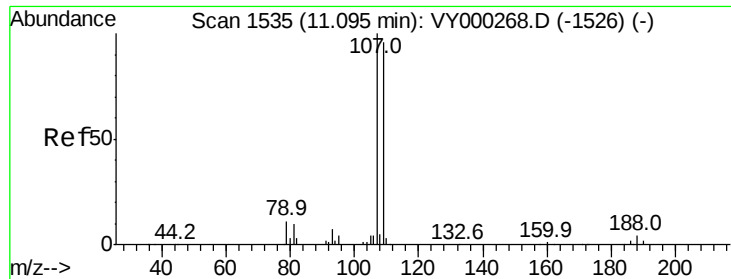
Tot Ion: 43 Resp: 54167
Ion Ratio Lower Upper
43 100
58 57.5 27.7 83.1



#60
Dibromochloromethane
Concen: 5.297 ug/l
RT: 10.99 min Scan# 1517
Delta R.T. -0.01 min
Lab File: VY000317.D
Acq: 15 Oct 2019 14:02

Tgt Ion: 129 Resp: 16852
Ion Ratio Lower Upper
129 100
127 79.9 39.9 119.7

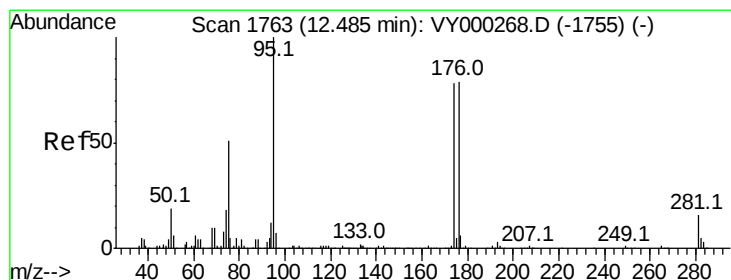
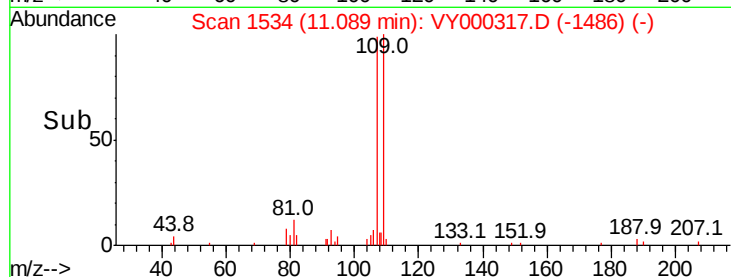
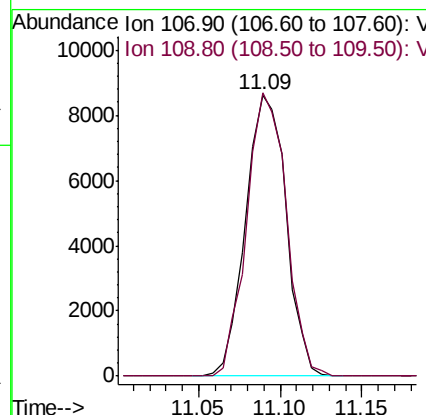
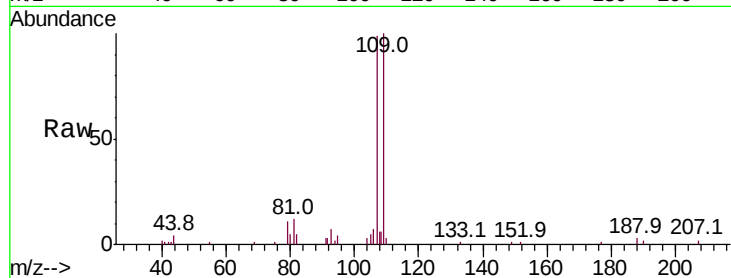




#61
 1,2-Dibromoethane
 Concen: 5.417 ug/l
 RT: 11.09 min Scan# 1534
 Delta R.T. -0.01 min
 Lab File: VY000317.D
 Acq: 15 Oct 2019 14:02

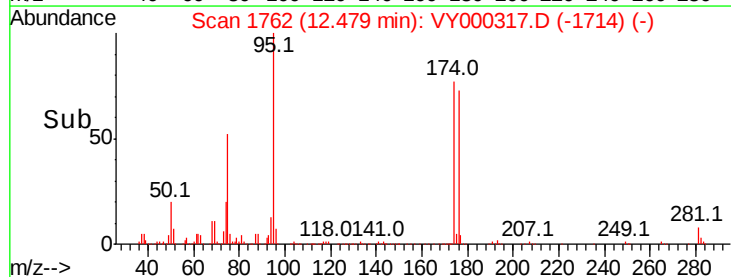
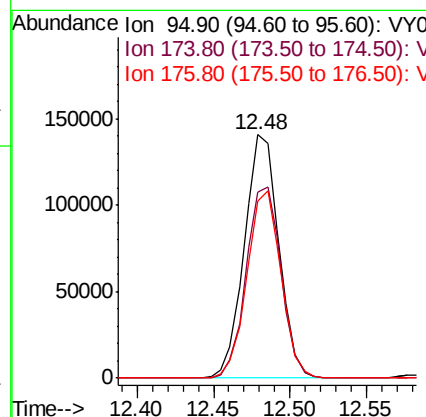
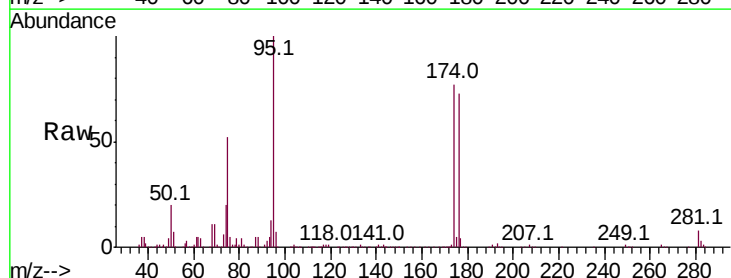
Instrument :
 MSVOA_Y
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

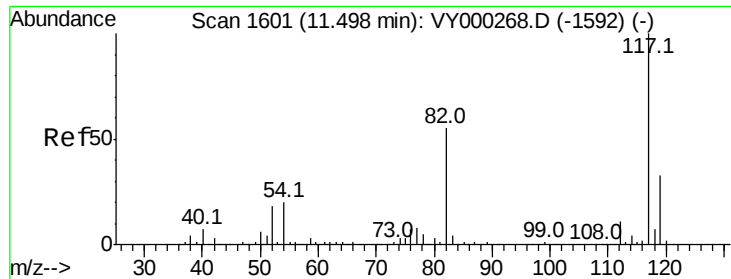
Tot Ion:107 Resp: 14930
 Ion Ratio Lower Upper
 107 100
 109 98.9 75.1 112.7



#62
 4-Bromofluorobenzene
 Concen: 49.005 ug/l
 RT: 12.48 min Scan# 1762
 Delta R.T. -0.01 min
 Lab File: VY000317.D
 Acq: 15 Oct 2019 14:02

Tgt Ion: 95 Resp: 219728
 Ion Ratio Lower Upper
 95 100
 174 79.6 0.0 159.6
 176 76.0 0.0 153.8

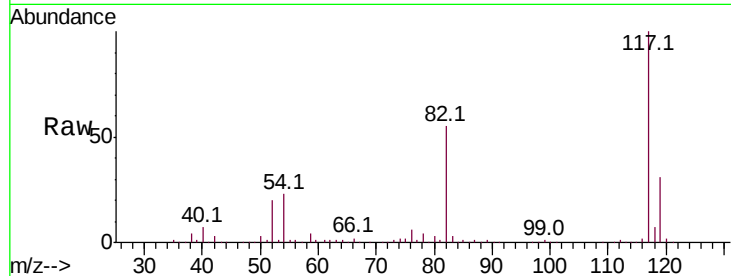




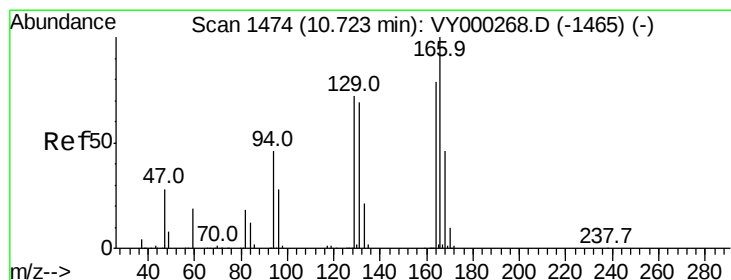
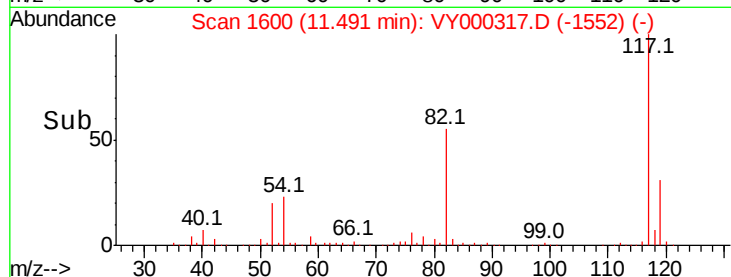
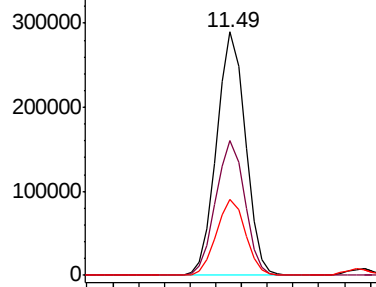
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.01 min
Lab File: VY000317.D
Acq: 15 Oct 2019 14:02

Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion:117 Resp: 447352
Ion Ratio Lower Upper
117 100
82 55.1 43.7 65.5
119 31.2 26.6 39.8

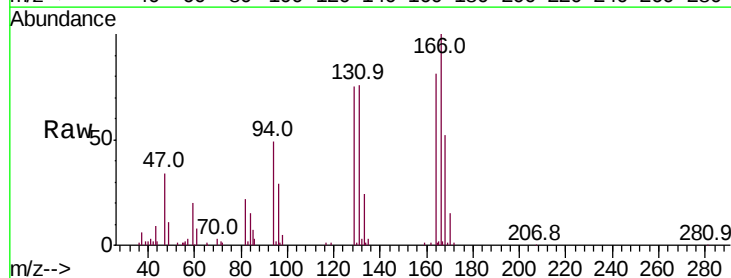


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VY0
Ion 118.90 (118.60 to 119.60): V

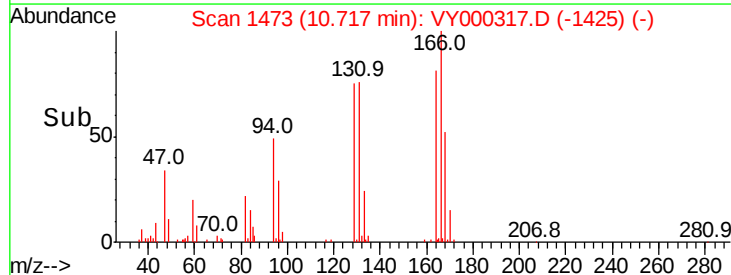
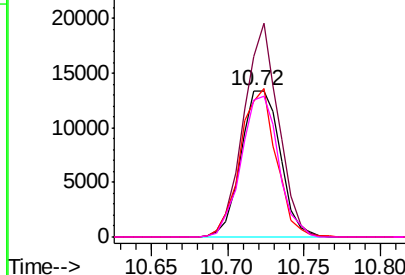


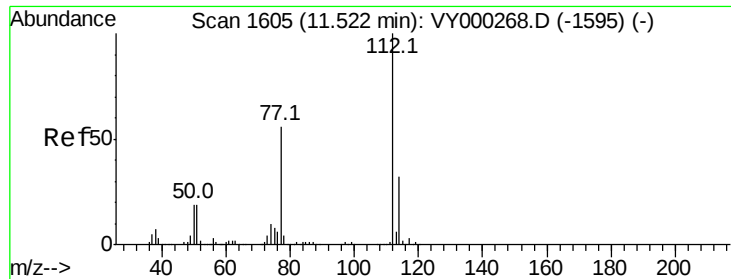
#64
Tetrachloroethene
Concen: 5.611 ug/l
RT: 10.72 min Scan# 1473
Delta R.T. -0.01 min
Lab File: VY000317.D
Acq: 15 Oct 2019 14:02

Tgt Ion:164 Resp: 23896
Ion Ratio Lower Upper
164 100
166 122.8 100.6 151.0
129 92.3 72.8 109.2
131 93.1 69.4 104.2



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

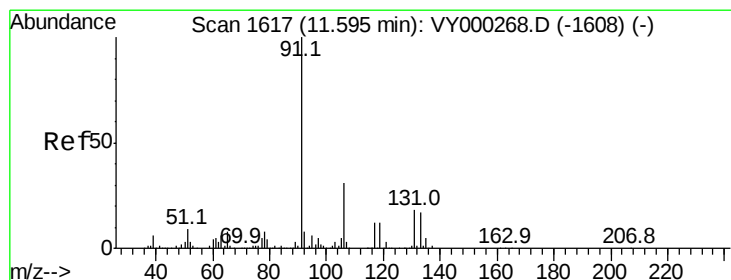
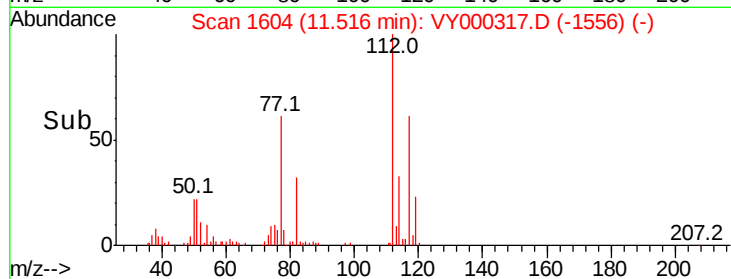
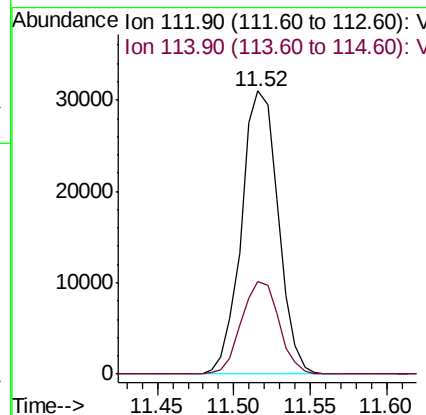
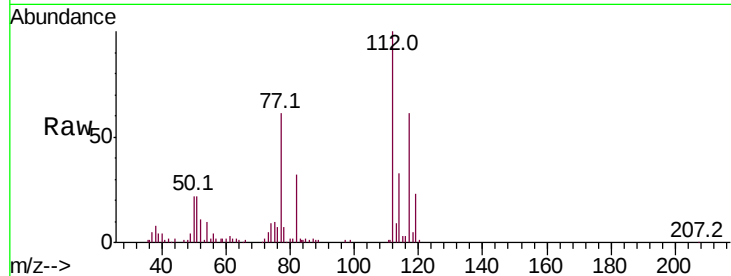




#65
Chlorobenzene
Concen: 5.484 ug/l
RT: 11.52 min Scan# 1604
Delta R.T. -0.01 min
Lab File: VY000317.D
Acq: 15 Oct 2019 14:02

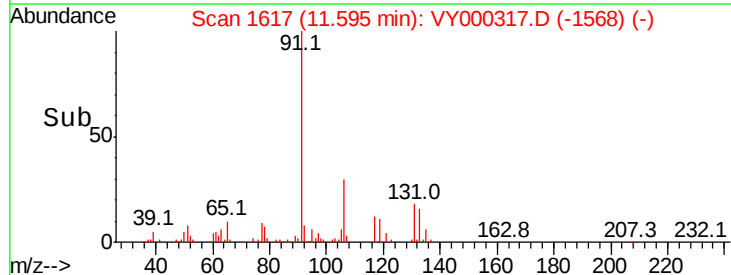
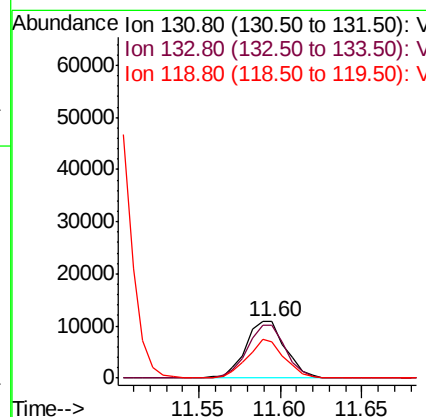
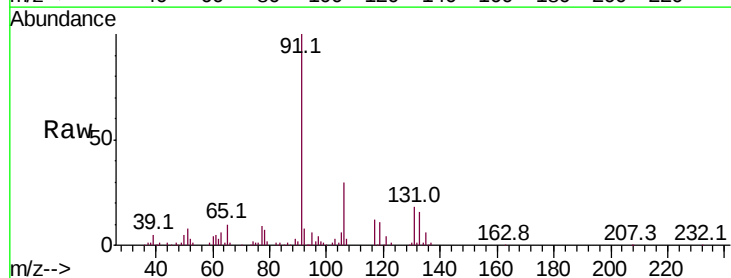
Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT4-2019

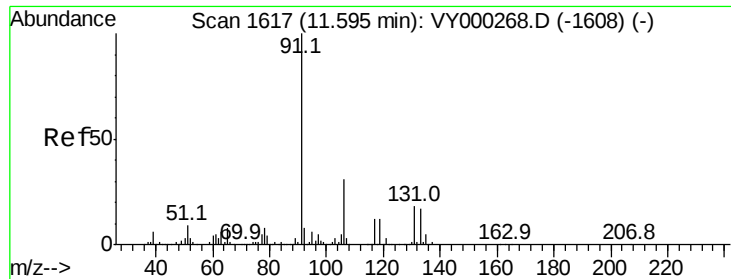
Tot Ion:112 Resp: 51773
Ion Ratio Lower Upper
112 100
114 32.8 25.7 38.5



#66
1,1,1,2-Tetrachloroethane
Concen: 5.544 ug/l
RT: 11.60 min Scan# 1617
Delta R.T. -0.00 min
Lab File: VY000317.D
Acq: 15 Oct 2019 14:02

Tgt Ion:131 Resp: 18387
Ion Ratio Lower Upper
131 100
133 90.5 47.2 141.6
119 63.0 32.6 98.0

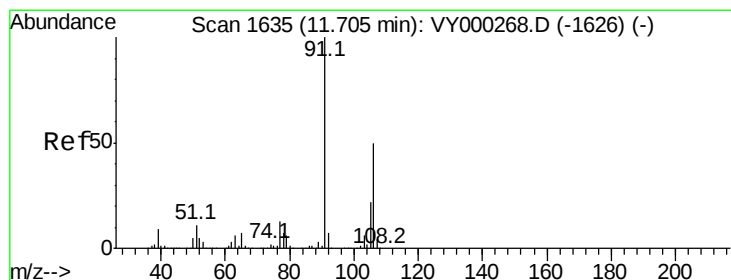
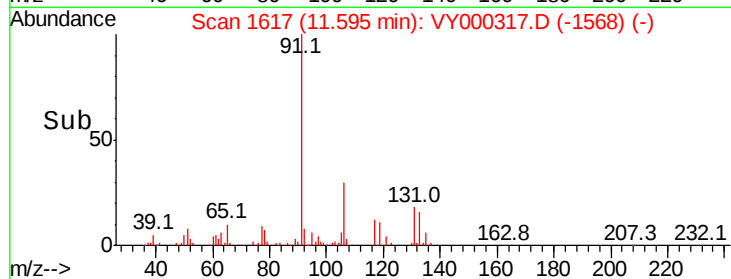
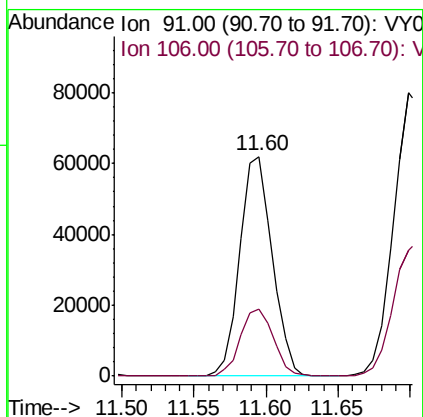
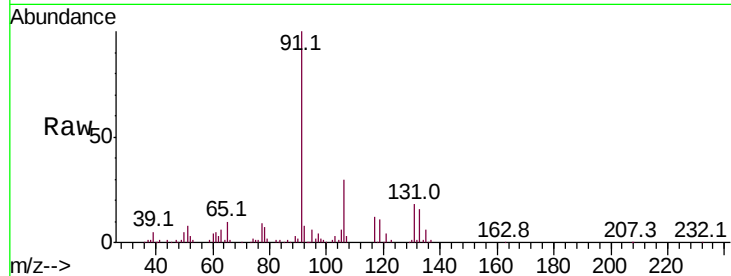




#67
Ethyl Benzene
Concen: 5.546 ug/l
RT: 11.60 min Scan# 1617
Delta R.T. -0.00 min
Lab File: VY000317.D
Acq: 15 Oct 2019 14:02

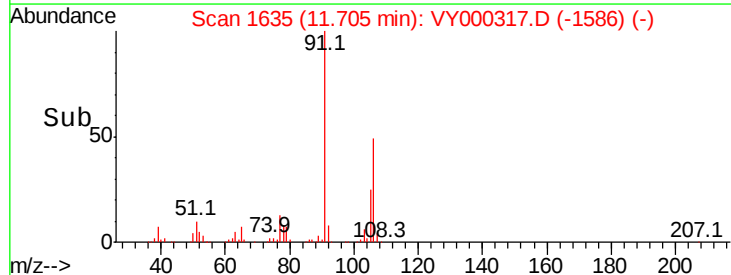
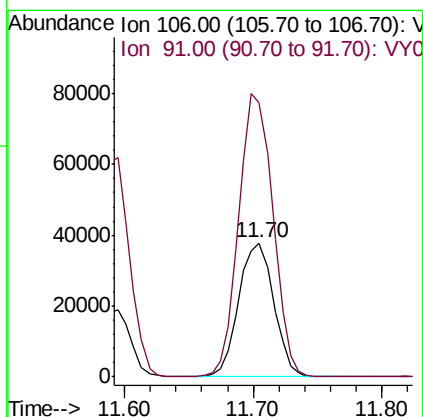
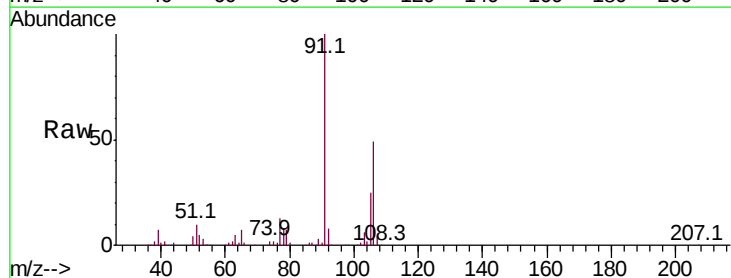
Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT4-2019

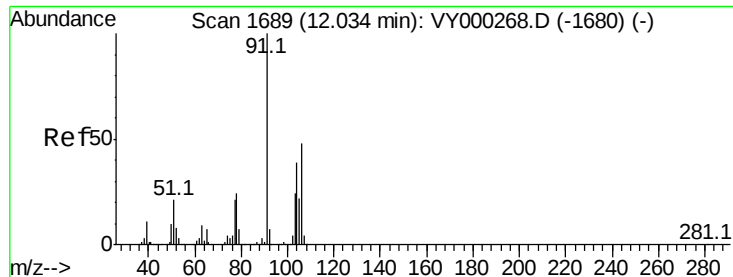
Tot Ion: 91 Resp: 97065
Ion Ratio Lower Upper
91 100
106 30.3 25.0 37.6



#68
m/p-Xylenes
Concen: 10.659 ug/l
RT: 11.70 min Scan# 1635
Delta R.T. -0.00 min
Lab File: VY000317.D
Acq: 15 Oct 2019 14:02

Tgt Ion: 106 Resp: 71318
Ion Ratio Lower Upper
106 100
91 206.6 157.5 236.3

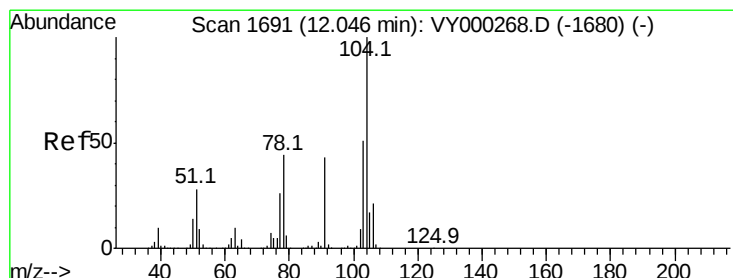
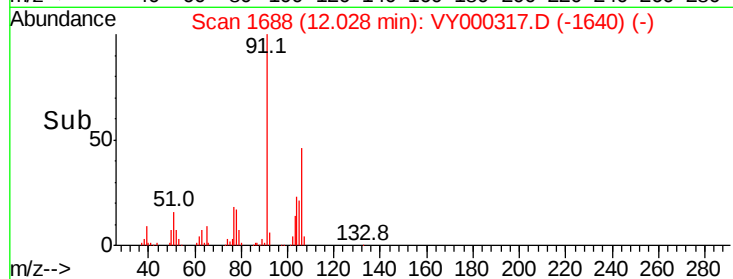
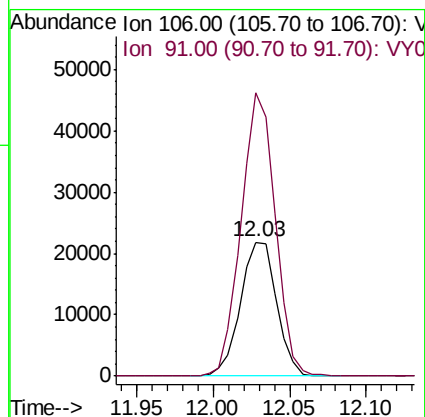
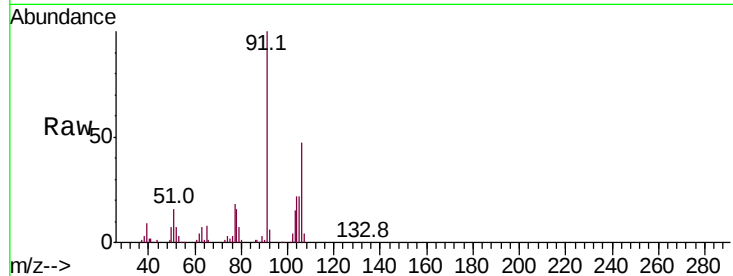




#69
o-Xylene
Concen: 5.625 ug/l
RT: 12.03 min Scan# 1688
Delta R.T. -0.01 min
Lab File: VY000317.D
Acq: 15 Oct 2019 14:02

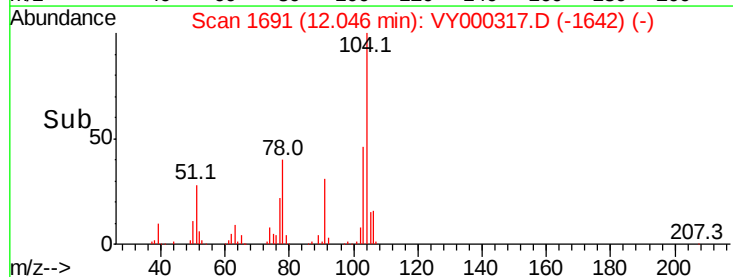
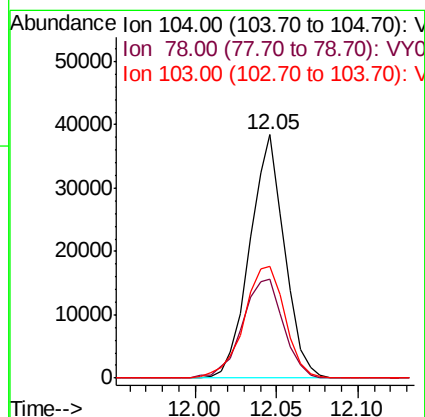
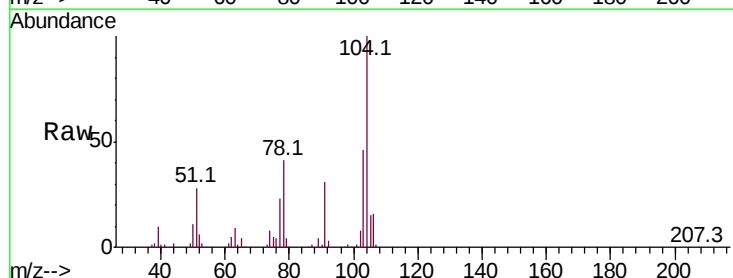
Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT4-2019

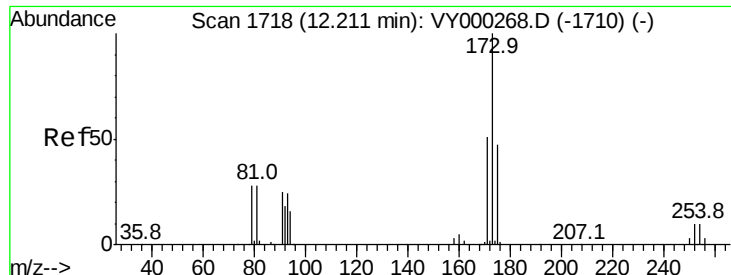
Tot Ion:106 Resp: 35900
Ion Ratio Lower Upper
106 100
91 199.8 104.7 313.9



#70
Styrene
Concen: 5.272 ug/l
RT: 12.05 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VY000317.D
Acq: 15 Oct 2019 14:02

Tgt Ion:104 Resp: 56745
Ion Ratio Lower Upper
104 100
78 48.5 39.0 58.6
103 54.3 43.1 64.7

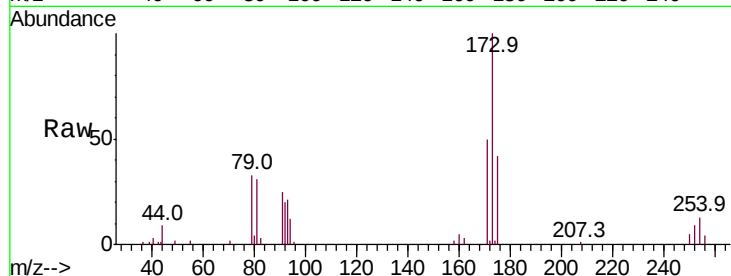




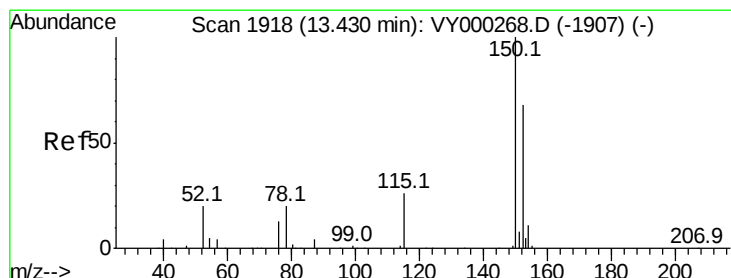
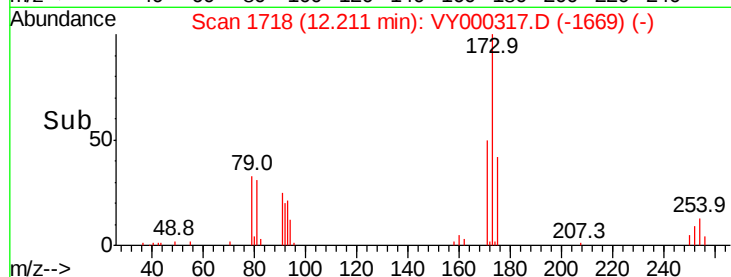
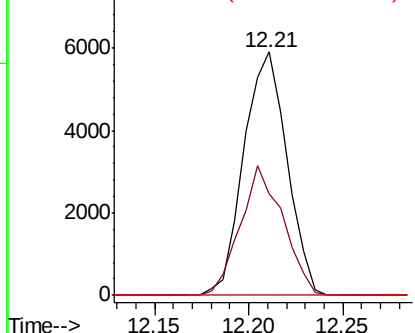
#71
Bromoform
Concen: 4.915 ug/l
RT: 12.21 min Scan# 1718
Delta R.T. -0.00 min
Lab File: VY000317.D
Acq: 15 Oct 2019 14:02

Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion:173 Resp: 9371
Ion Ratio Lower Upper
173 100
175 52.7 24.6 73.6
254 0.0 0.1 0.1#

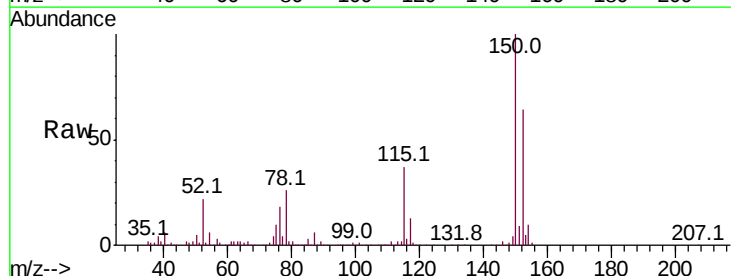


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

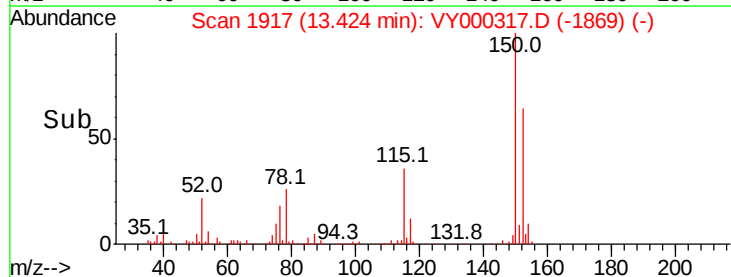
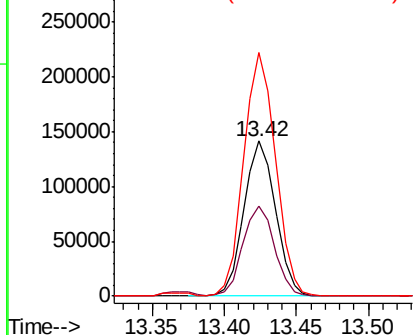


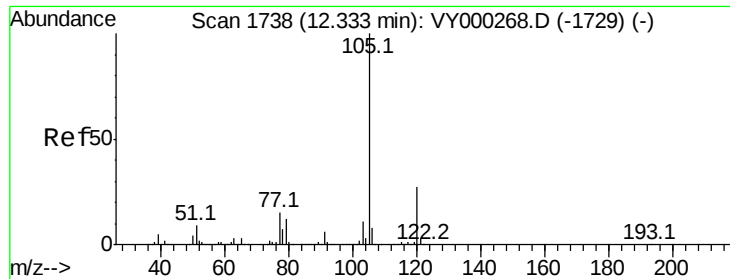
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. -0.01 min
Lab File: VY000317.D
Acq: 15 Oct 2019 14:02

Tgt Ion:152 Resp: 213881
Ion Ratio Lower Upper
152 100
115 58.4 29.3 88.0
150 158.7 0.0 348.4



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: 5.436 ug/l

RT: 12.33 min Scan# 1737

Delta R.T. -0.01 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

Instrument :

MSVOA_Y

ClientSampleId :

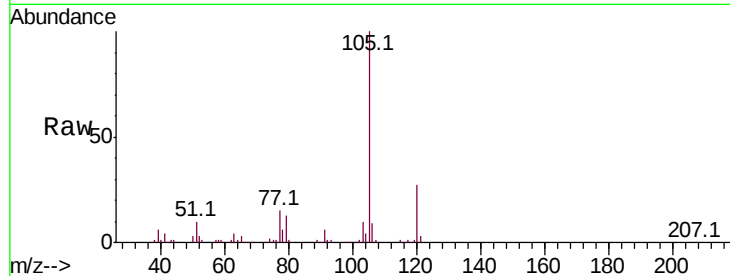
LOQ-SOIL-02-QT4-2019

Tot Ion:105 Resp: 90649

Ion Ratio Lower Upper

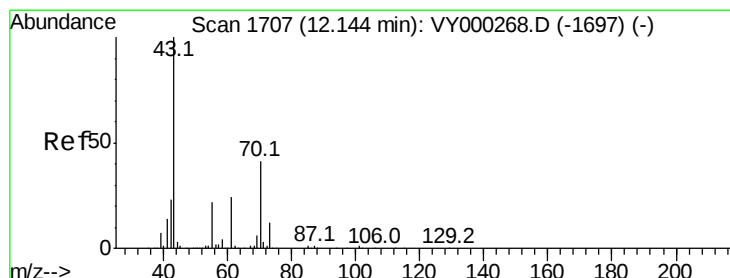
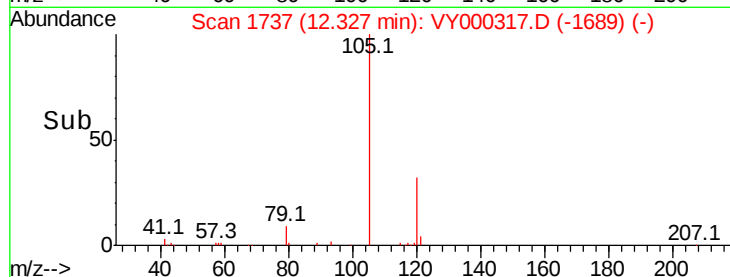
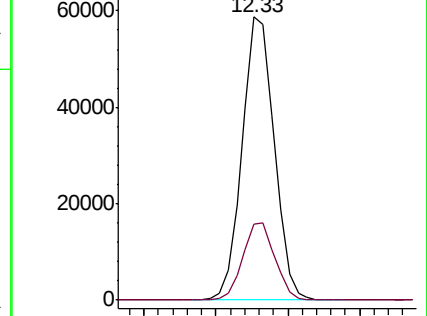
105 100

120 27.1 13.4 40.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 5.823 ug/l

RT: 12.14 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

Tgt Ion: 43 Resp: 23840

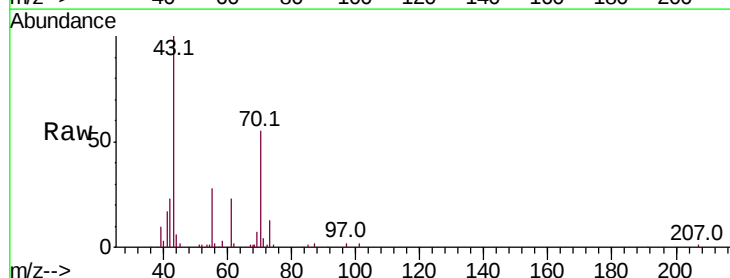
Ion Ratio Lower Upper

43 100

70 44.2 32.9 49.3

55 22.9 17.8 26.6

61 23.3 19.5 29.3

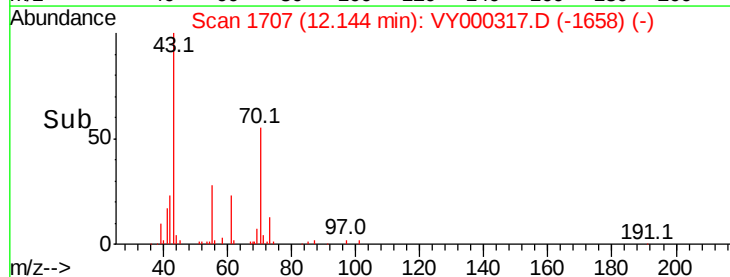
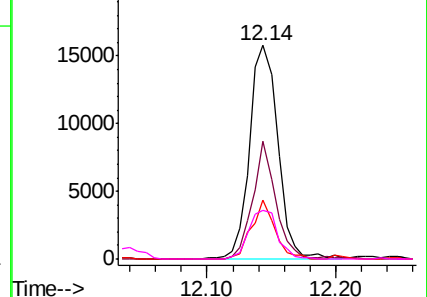


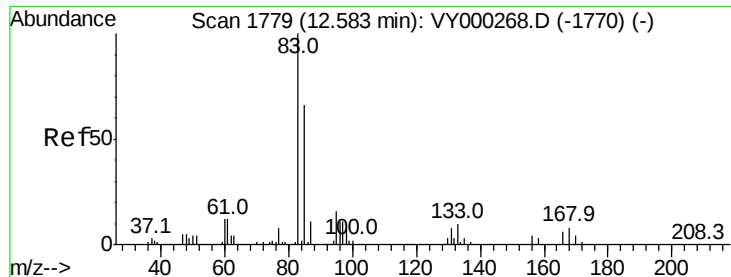
Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 70.00 (69.70 to 70.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 61.00 (60.70 to 61.70): VY0





#75

1,1,2,2-Tetrachloroethane

Concen: 5.242 ug/l

RT: 12.58 min Scan# 1779

Delta R.T. -0.00 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

Instrument :

MSVOA_Y

ClientSampleId :

LOQ-SOIL-02-QT4-2019

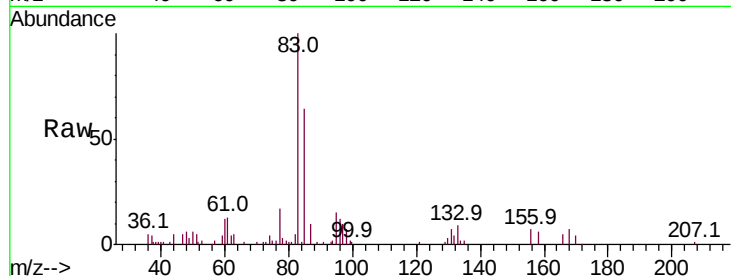
Tot Ion: 83 Resp: 16415

Ion Ratio Lower Upper

83 100

131 10.2 5.3 16.1

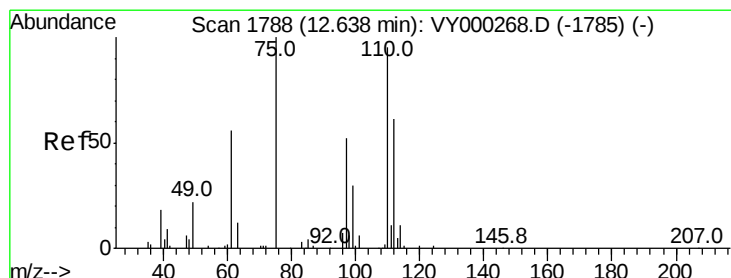
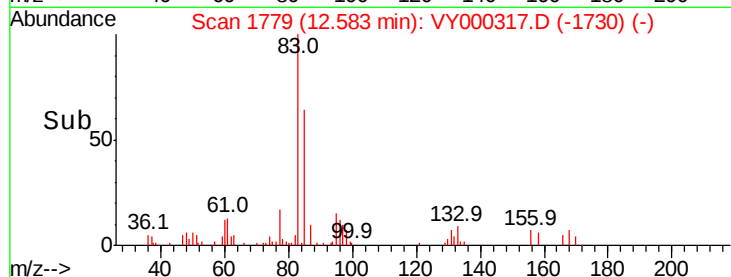
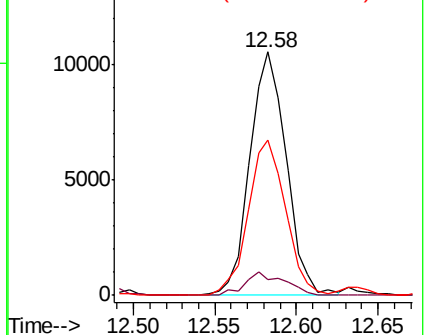
85 65.8 32.9 98.7



Abundance Ion 82.90 (82.60 to 83.60): VY0

Ion 130.80 (130.50 to 131.50): VY0

Ion 84.90 (84.60 to 85.60): VY0



#76

1,2,3-Trichloropropane

Concen: 9.460 ug/l

RT: 12.64 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VY000317.D

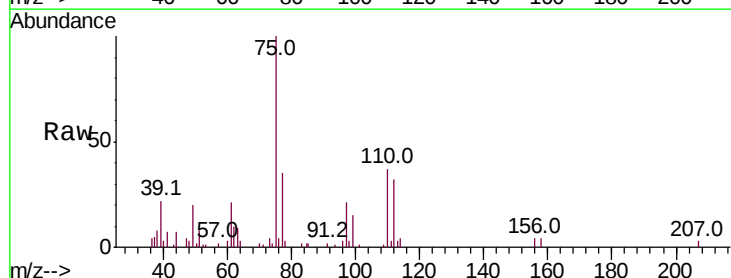
Acq: 15 Oct 2019 14:02

Tgt Ion: 75 Resp: 24881

Ion Ratio Lower Upper

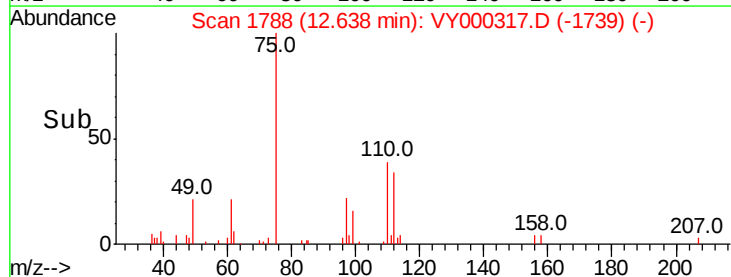
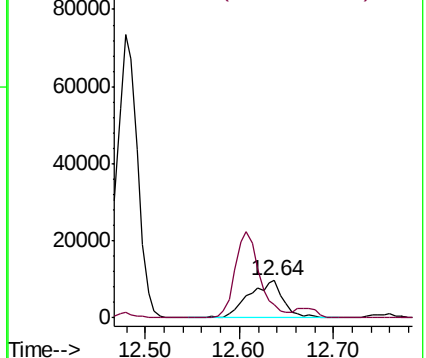
75 100

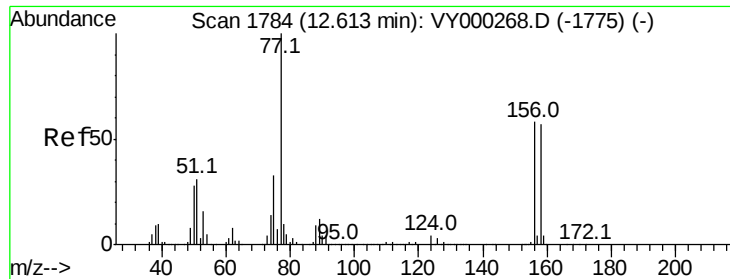
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0





#77

Bromobenzene

Concen: 5.776 ug/l

RT: 12.61 min Scan# 1783

Delta R.T. -0.01 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

Instrument :

MSVOA_Y

ClientSampleId :

LOQ-SOIL-02-QT4-2019

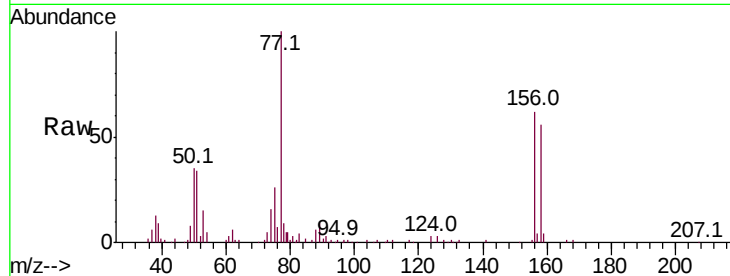
Tot Ion:156 Resp: 21435

Ion Ratio Lower Upper

156 100

77 190.6 101.0 302.9

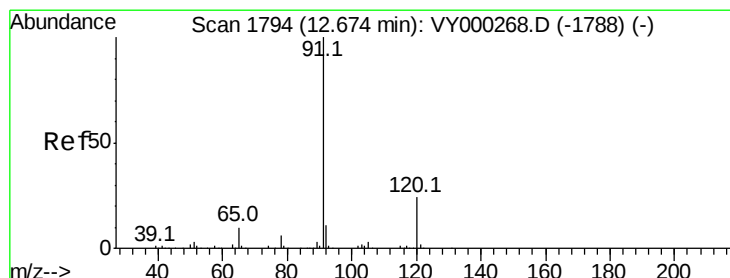
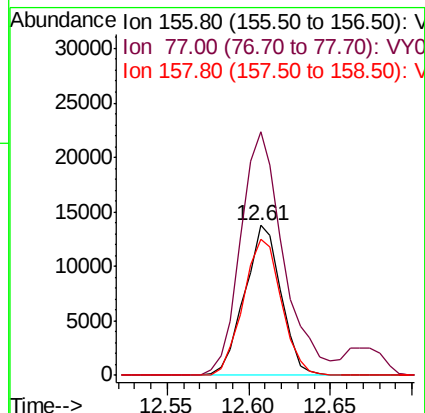
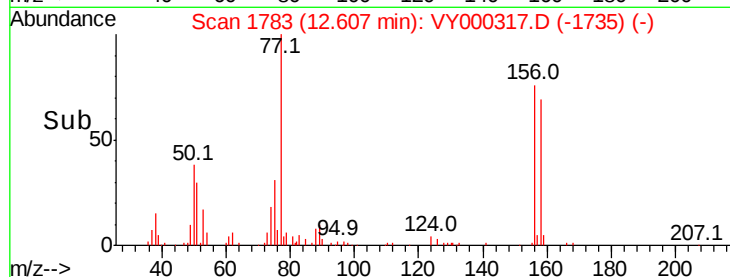
158 95.0 49.7 149.1



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VY0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 5.331 ug/l

RT: 12.67 min Scan# 1794

Delta R.T. -0.00 min

Lab File: VY000317.D

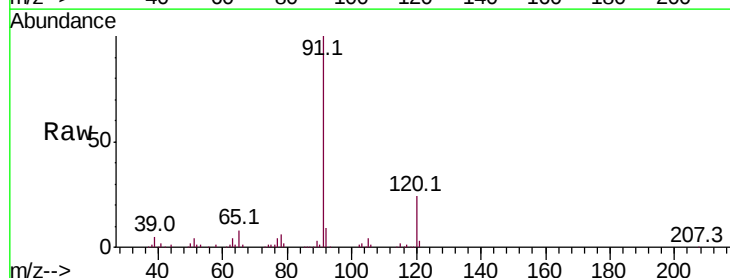
Acq: 15 Oct 2019 14:02

Tgt Ion: 91 Resp: 106745

Ion Ratio Lower Upper

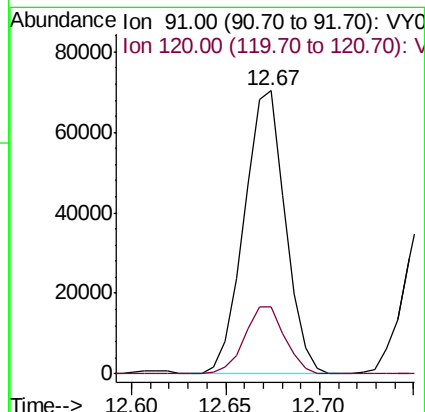
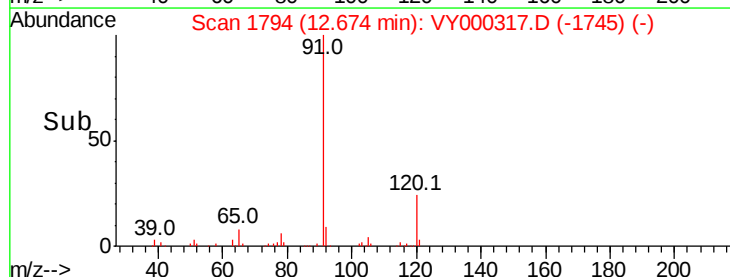
91 100

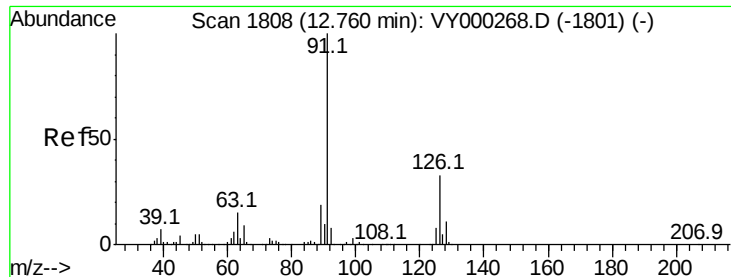
120 23.3 11.5 34.5



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 5.551 ug/l

RT: 12.75 min Scan# 1807

Delta R.T. -0.01 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

Instrument :

MSVOA_Y

ClientSampleId :

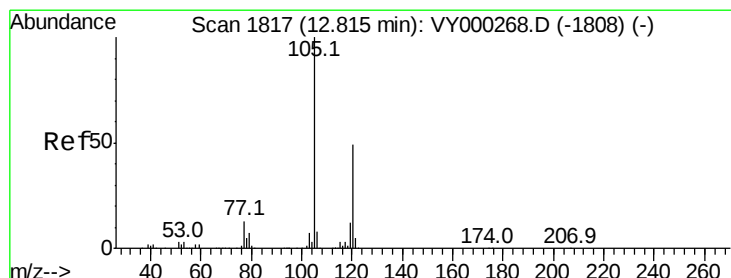
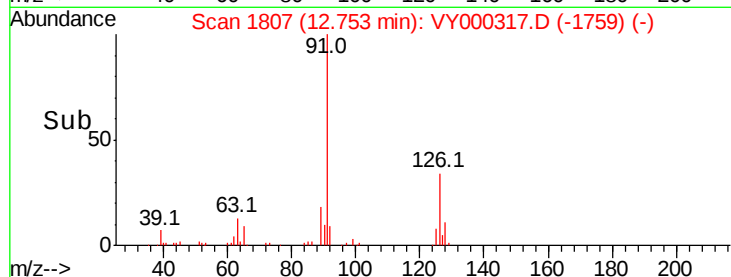
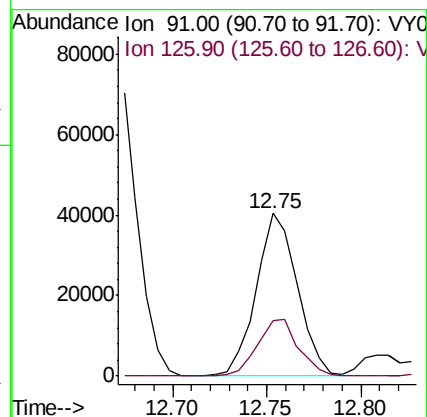
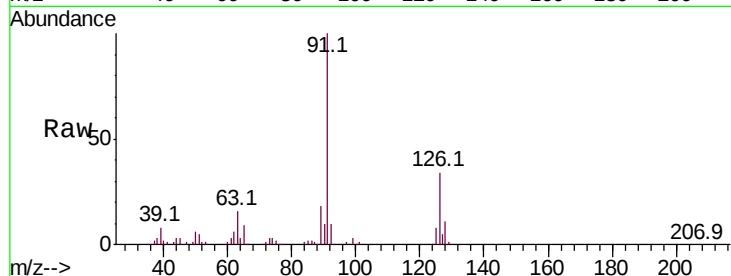
LOQ-SOIL-02-QT4-2019

Tot Ion: 91 Resp: 61383

Ion Ratio Lower Upper

91 100

126 34.8 17.1 51.3



#80

1,3,5-Trimethylbenzene

Concen: 5.373 ug/l

RT: 12.81 min Scan# 1816

Delta R.T. -0.01 min

Lab File: VY000317.D

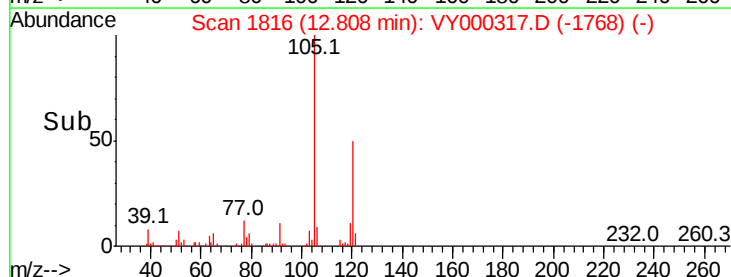
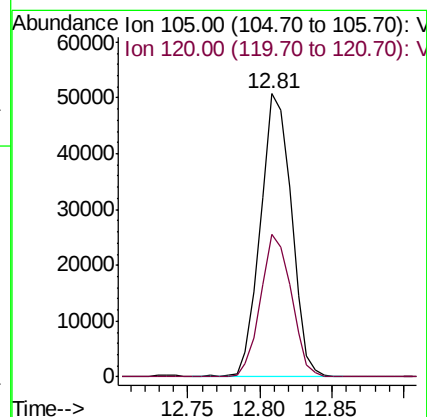
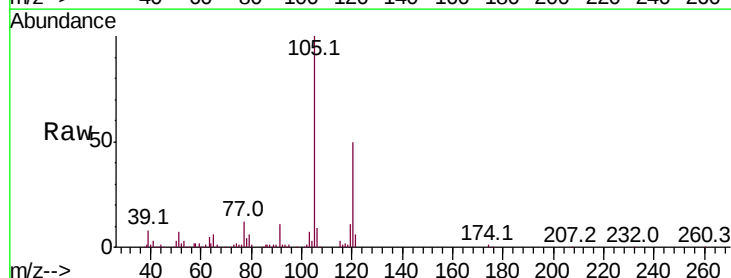
Acq: 15 Oct 2019 14:02

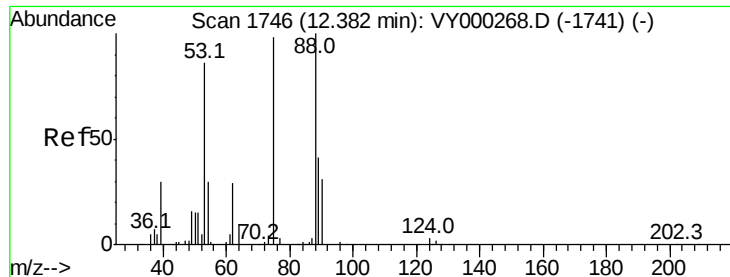
Tgt Ion:105 Resp: 75142

Ion Ratio Lower Upper

105 100

120 49.9 24.9 74.8





#81

trans-1,4-Dichloro-2-butene

Concen: 5.270 ug/l

RT: 12.38 min Scan# 1746

Delta R.T. -0.00 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

Instrument :

MSVOA_Y

ClientSampleId :

LOQ-SOIL-02-QT4-2019

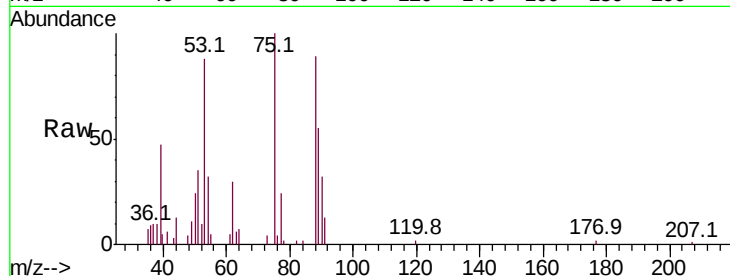
Tot Ion: 75 Resp: 6335

Ion Ratio Lower Upper

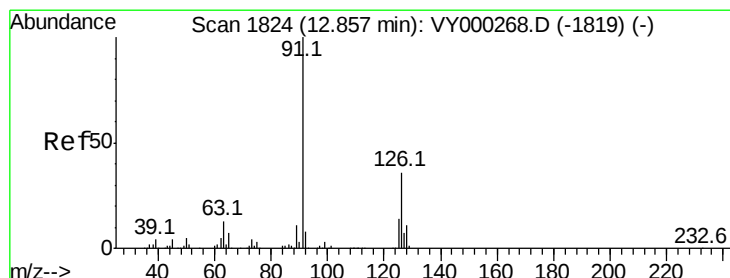
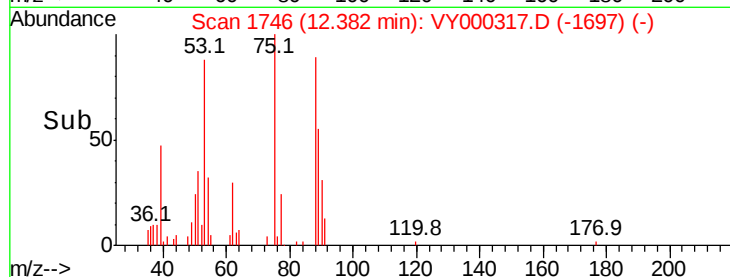
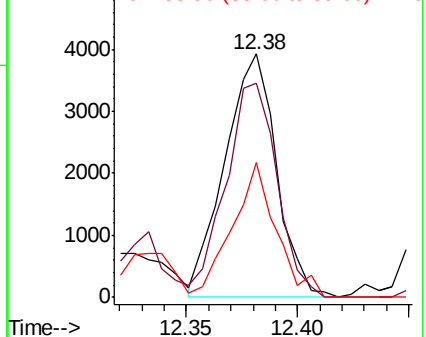
75 100

53 87.3 71.3 106.9

89 47.3 35.1 52.7



Abundance Ion 74.90 (74.60 to 75.60): VY0
Ion 53.00 (52.70 to 53.70): VY0
Ion 88.90 (88.60 to 89.60): VY0



#82

4-Chlorotoluene

Concen: 5.707 ug/l

RT: 12.86 min Scan# 1824

Delta R.T. -0.00 min

Lab File: VY000317.D

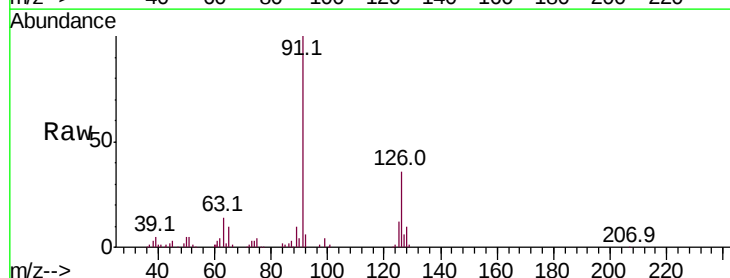
Acq: 15 Oct 2019 14:02

Tgt Ion: 91 Resp: 66706

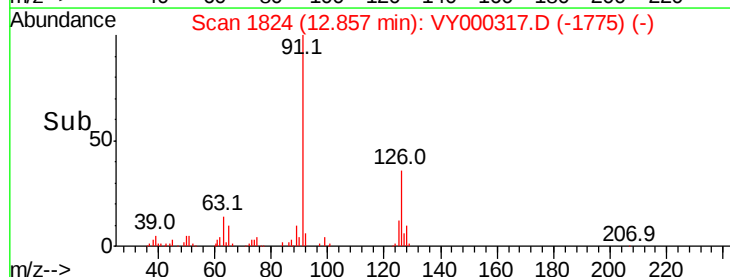
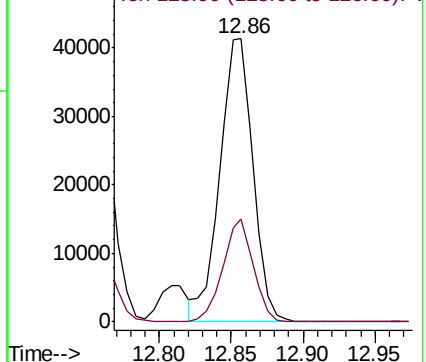
Ion Ratio Lower Upper

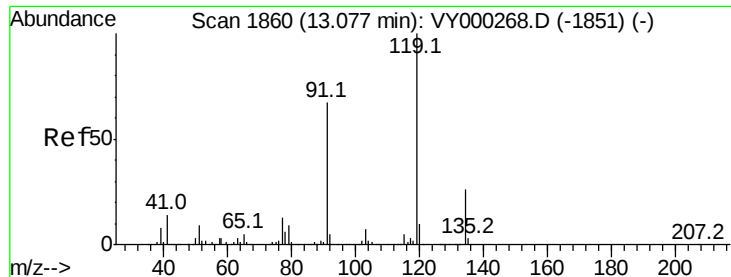
91 100

126 33.4 17.2 51.5



Abundance Ion 91.00 (90.70 to 91.70): VY0
Ion 125.90 (125.60 to 126.60): V





#83

tert-Butylbenzene

Concen: 5.411 ug/l

RT: 13.08 min Scan# 1860

Delta R.T. -0.00 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

Instrument :

MSVOA_Y

ClientSampleId :

LOQ-SOIL-02-QT4-2019

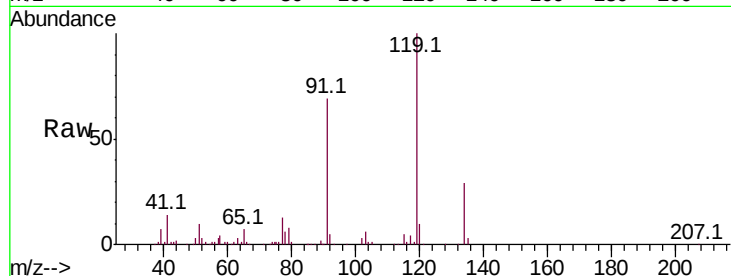
Tot Ion:119 Resp: 64082

Ion Ratio Lower Upper

119 100

91 66.2 32.9 98.7

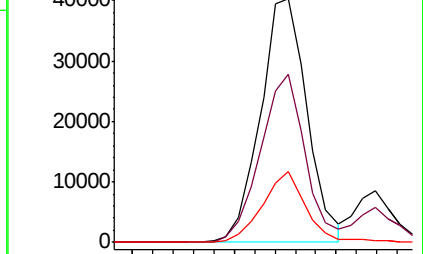
134 27.3 13.3 39.8



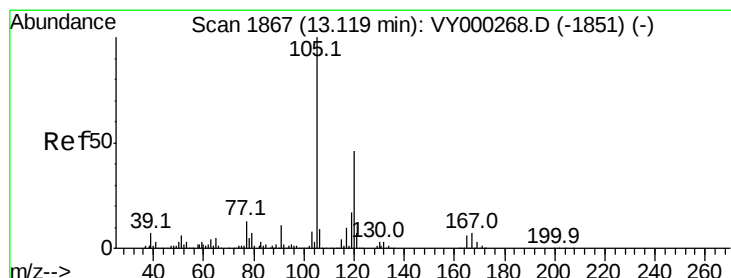
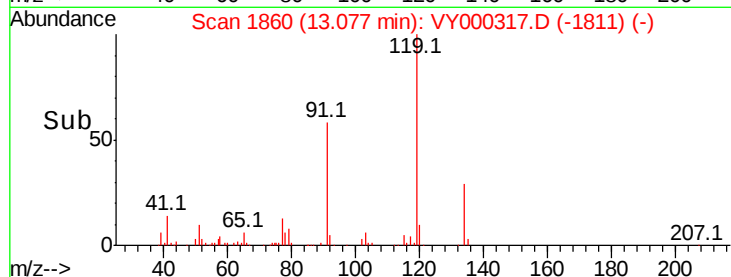
Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VY0

Ion 134.00 (133.70 to 134.70): V



Time-->



#84

1,2,4-Trimethylbenzene

Concen: 5.556 ug/l

RT: 13.12 min Scan# 1867

Delta R.T. -0.00 min

Lab File: VY000317.D

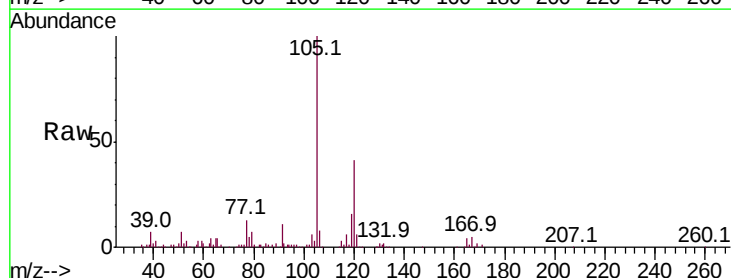
Acq: 15 Oct 2019 14:02

Tgt Ion:105 Resp: 76686

Ion Ratio Lower Upper

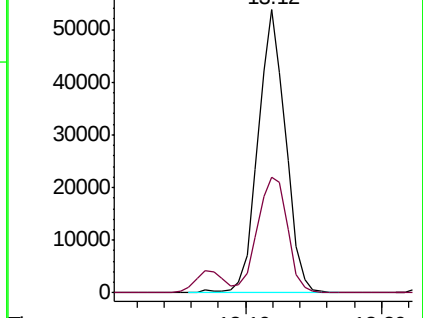
105 100

120 44.8 22.9 68.8

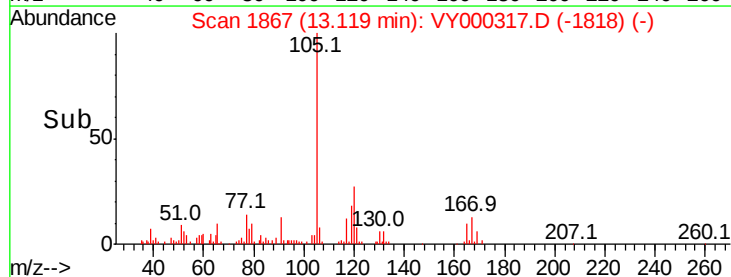


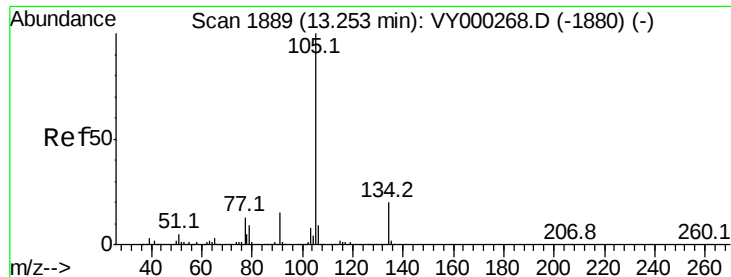
Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



Time-->





#85

sec-Butylbenzene

Concen: 5.344 ug/l

RT: 13.25 min Scan# 1889

Delta R.T. -0.00 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

Instrument :

MSVOA_Y

ClientSampleId :

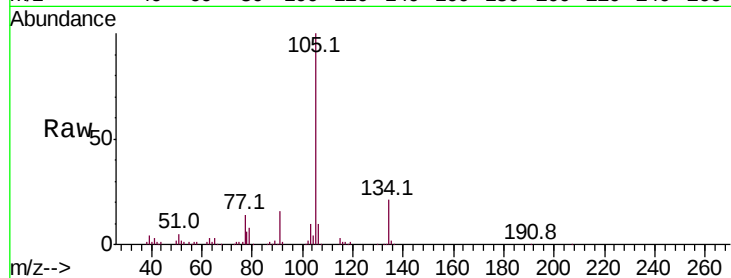
LOQ-SOIL-02-QT4-2019

Tot Ion:105 Resp: 91542

Ion Ratio Lower Upper

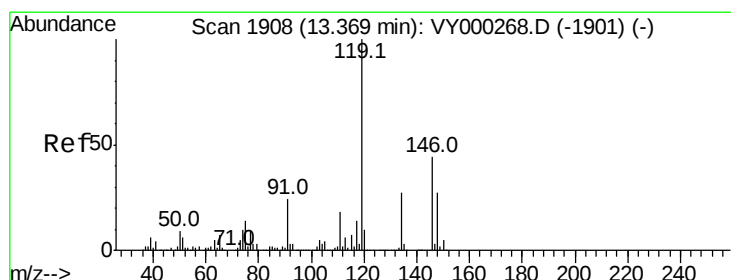
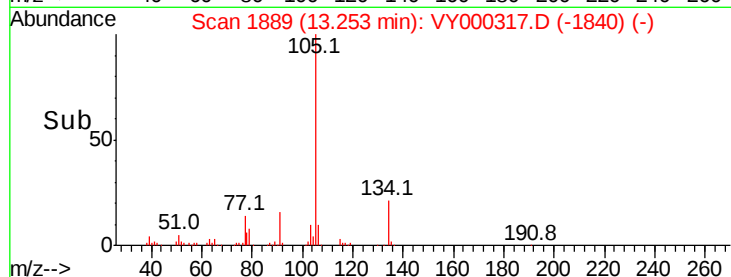
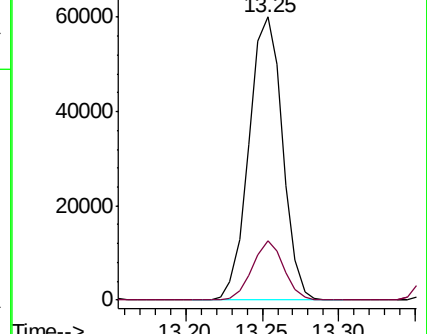
105 100

134 19.9 10.1 30.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 5.411 ug/l

RT: 13.37 min Scan# 1908

Delta R.T. -0.00 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

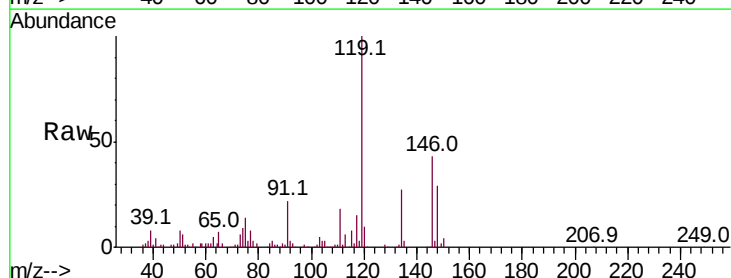
Tgt Ion:119 Resp: 80820

Ion Ratio Lower Upper

119 100

134 26.9 13.6 40.8

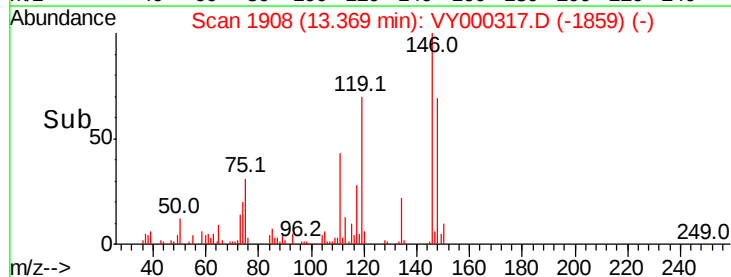
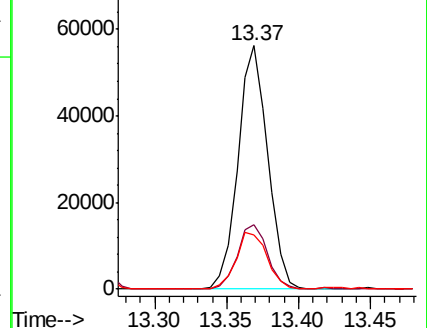
91 24.5 12.0 36.1

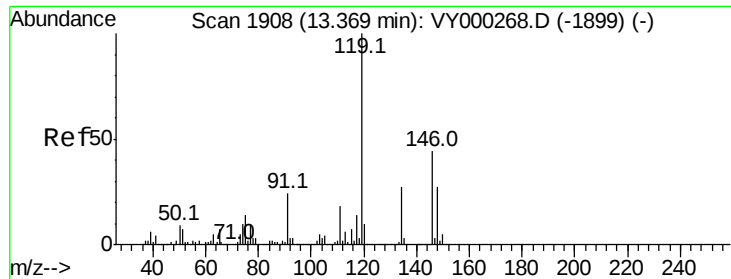


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VY0





#87

1,3-Dichlorobenzene

Concen: 5.491 ug/l

RT: 13.36 min Scan# 1907

Delta R.T. -0.01 min

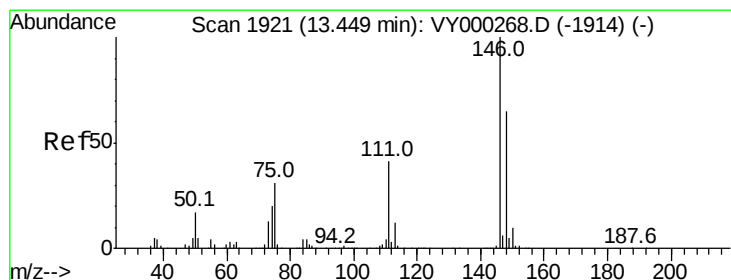
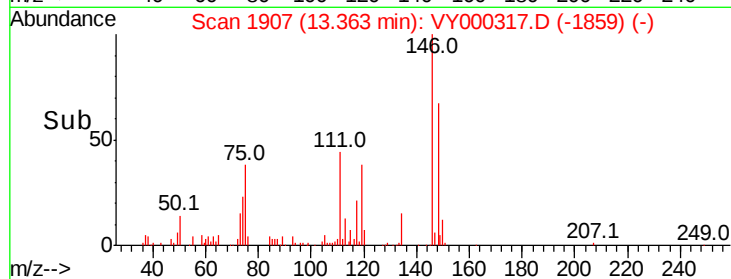
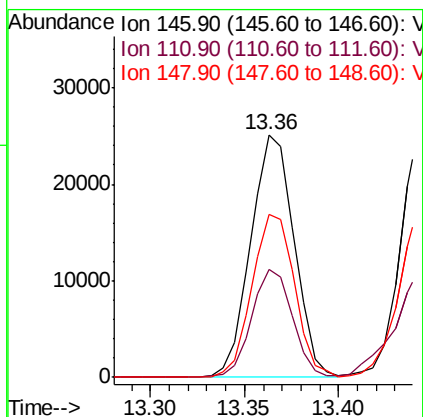
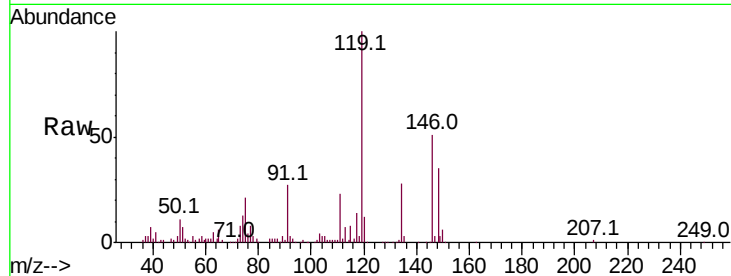
Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion:146 Resp: 40149

Ion	Ratio	Lower	Upper
146	100		
111	42.0	20.6	61.8
148	66.0	31.9	95.5



#88

1,4-Dichlorobenzene

Concen: 5.708 ug/l

RT: 13.45 min Scan# 1921

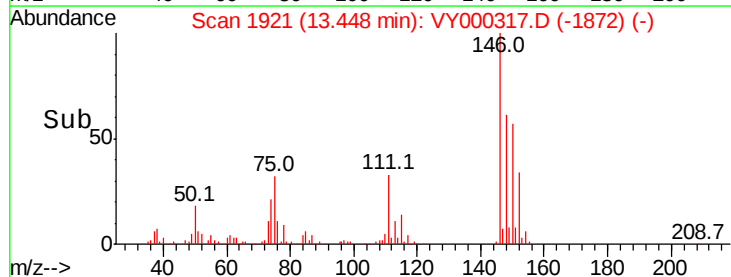
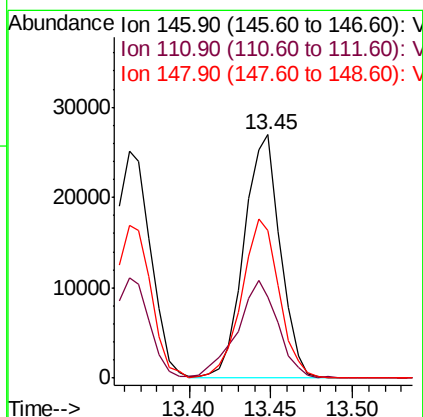
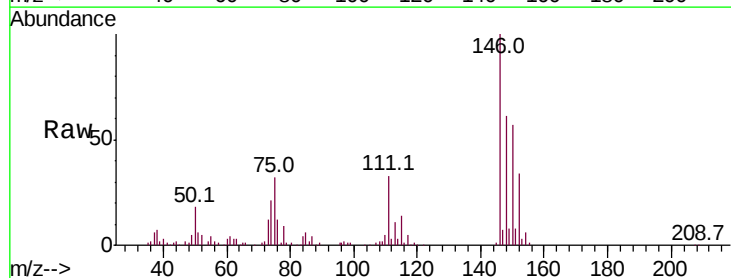
Delta R.T. -0.00 min

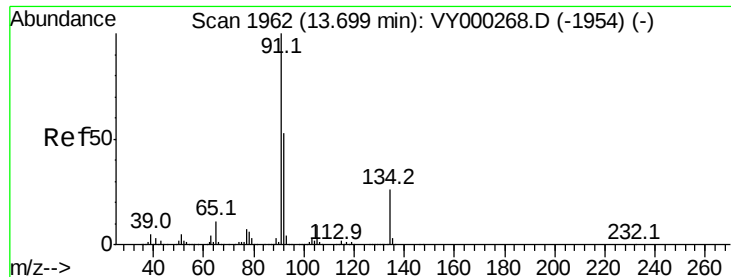
Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

Tgt Ion:146 Resp: 41713

Ion	Ratio	Lower	Upper
146	100		
111	45.2	20.1	60.2
148	67.6	32.4	97.2

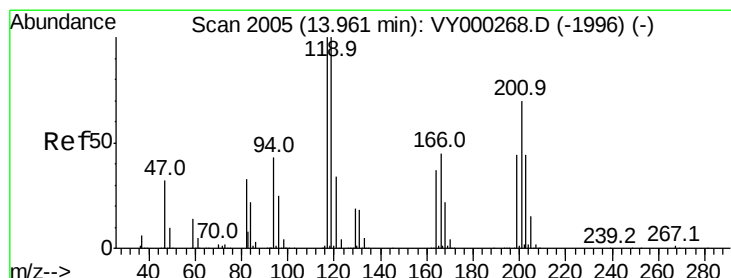
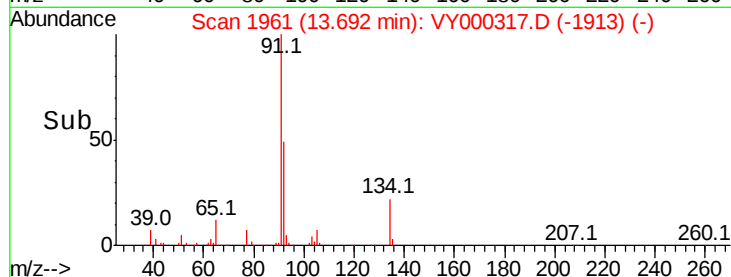
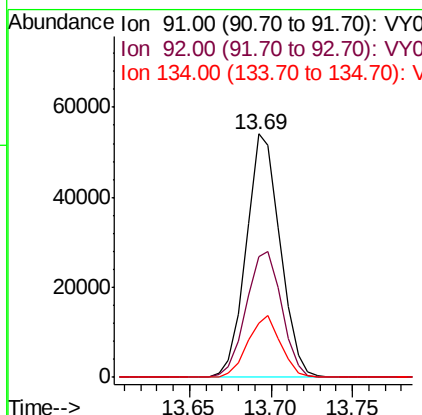
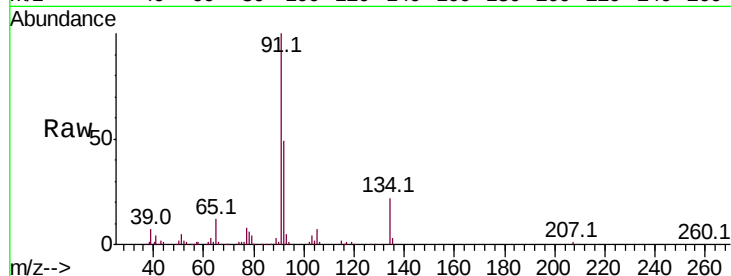




#89
n-Butylbenzene
Concen: 5.334 ug/l
RT: 13.69 min Scan# 1961
Delta R.T. -0.01 min
Lab File: VY000317.D
Acq: 15 Oct 2019 14:02

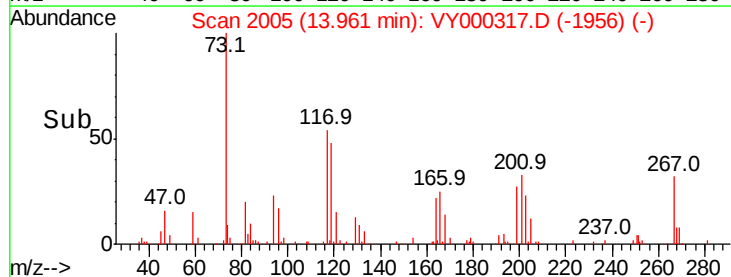
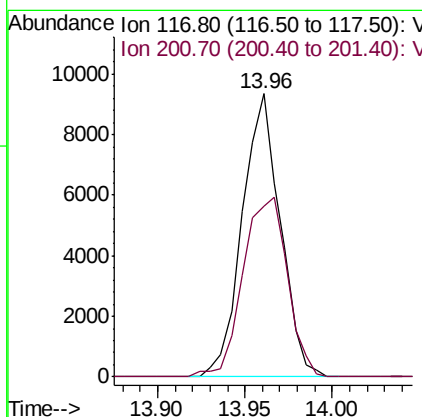
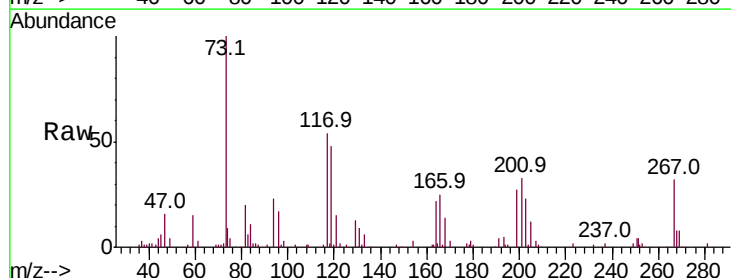
Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT4-2019

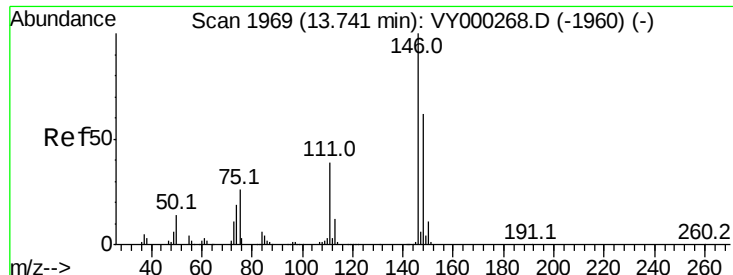
Tot Ion: 91 Resp: 78719
Ion Ratio Lower Upper
91 100
92 53.7 26.7 80.1
134 24.3 13.0 38.9



#90
Hexachloroethane
Concen: 5.103 ug/l
RT: 13.96 min Scan# 2005
Delta R.T. -0.00 min
Lab File: VY000317.D
Acq: 15 Oct 2019 14:02

Tgt Ion: 117 Resp: 14114
Ion Ratio Lower Upper
117 100
201 74.0 36.3 108.7

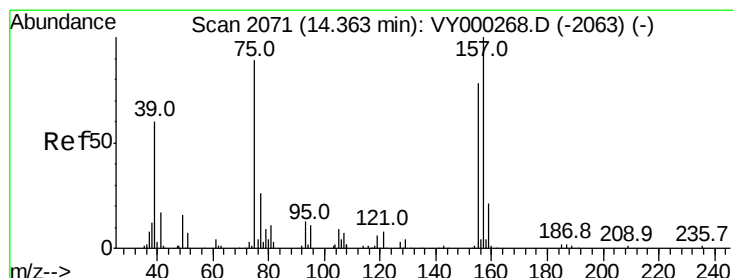
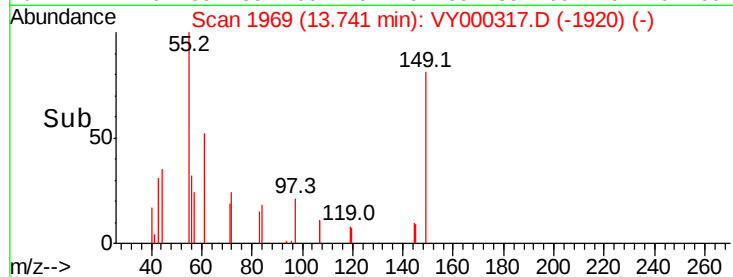
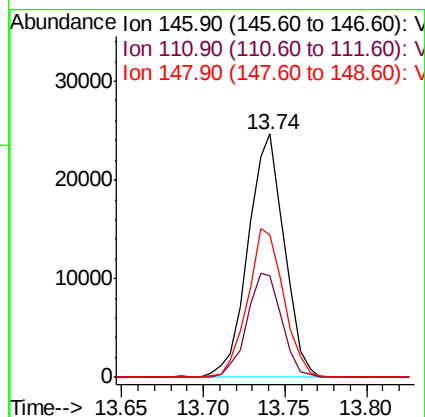
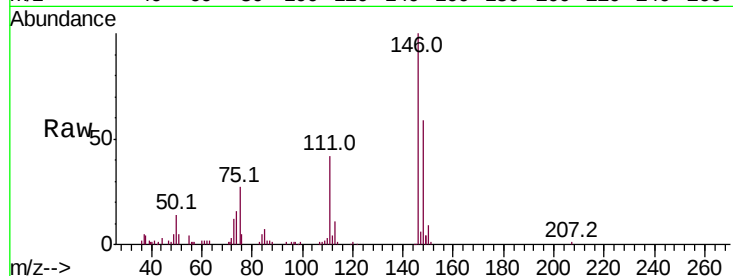




#91
 1,2-Dichlorobenzene
 Concen: 5.721 ug/l
 RT: 13.74 min Scan# 1969
 Delta R.T. -0.00 min
 Lab File: VY000317.D
 Acq: 15 Oct 2019 14:02

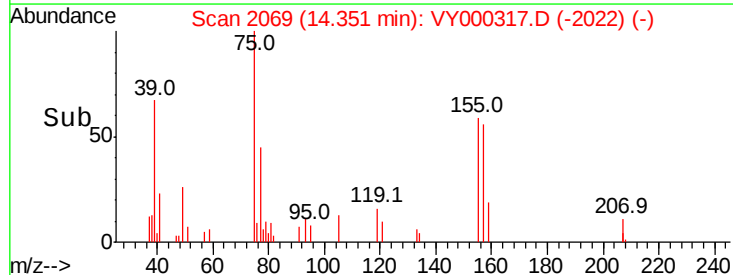
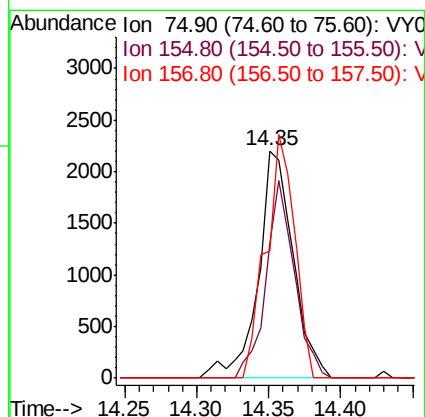
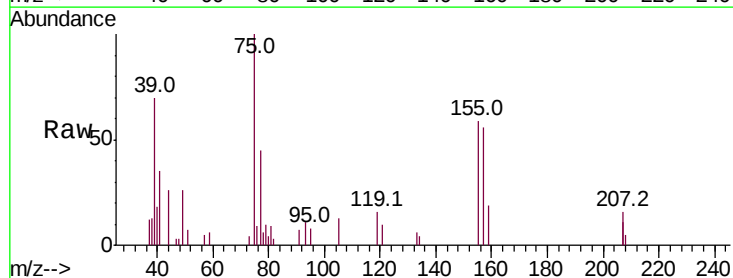
Instrument :
 MSVOA_Y
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

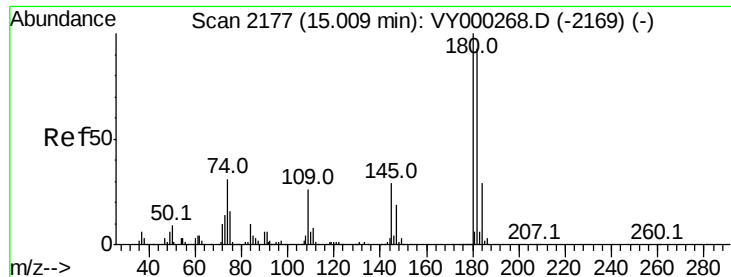
Tot Ion	Ratio	Lower	Upper
146	100		
111	41.1	20.5	61.5
148	61.1	31.6	95.0



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 6.205 ug/l
 RT: 14.35 min Scan# 2069
 Delta R.T. -0.01 min
 Lab File: VY000317.D
 Acq: 15 Oct 2019 14:02

Tgt Ion	Ratio	Lower	Upper
75	100		
155	70.7	45.8	137.3
157	88.5	55.6	166.9

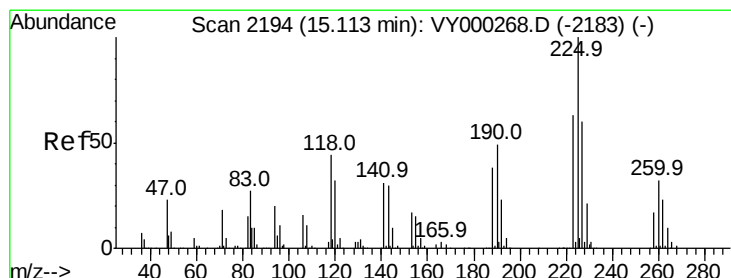
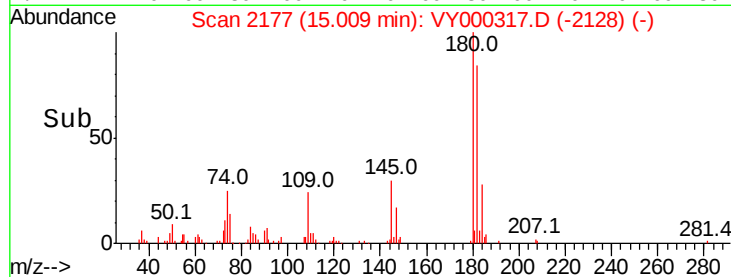
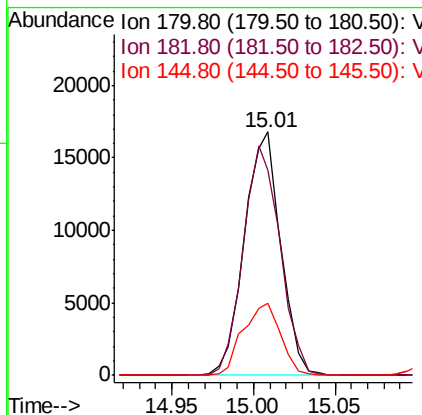
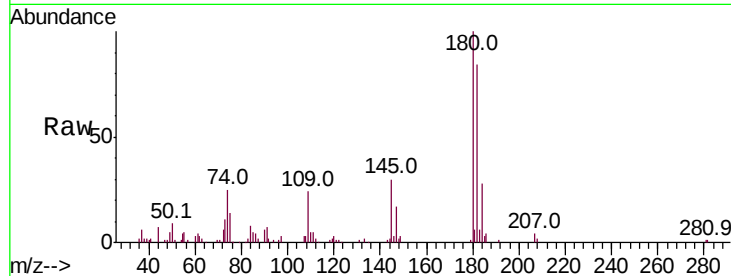




#93
 1,2,4-Trichlorobenzene
 Concen: 5.645 ug/l
 RT: 15.01 min Scan# 2177
 Delta R.T. -0.00 min
 Lab File: VY000317.D
 Acq: 15 Oct 2019 14:02

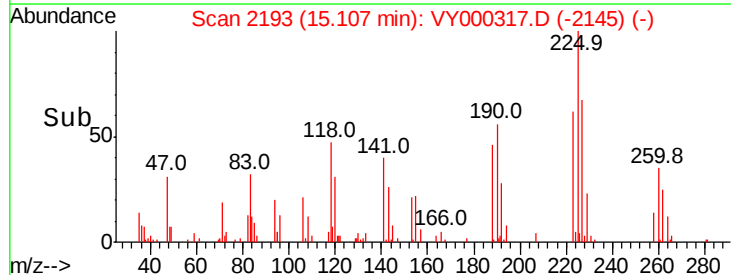
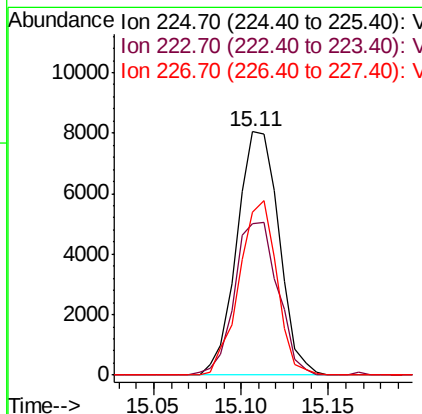
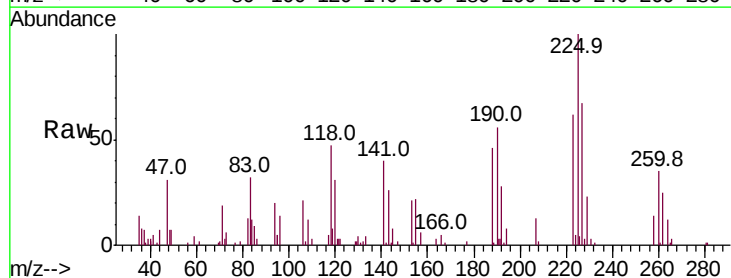
Instrument :
 MSVOA_Y
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

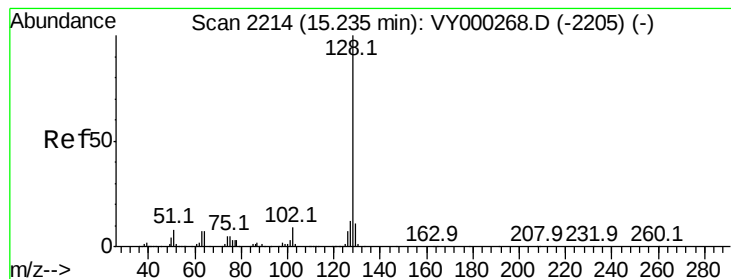
Tot Ion:180 Resp: 26006
 Ion Ratio Lower Upper
 180 100
 182 95.7 47.5 142.6
 145 30.8 15.4 46.1



#94
 Hexachlorobutadiene
 Concen: 5.423 ug/l
 RT: 15.11 min Scan# 2193
 Delta R.T. -0.01 min
 Lab File: VY000317.D
 Acq: 15 Oct 2019 14:02

Tgt Ion:225 Resp: 13520
 Ion Ratio Lower Upper
 225 100
 223 64.6 31.9 95.7
 227 64.1 31.4 94.2





#95

Naphthalene

Concen: 5.608 ug/l

RT: 15.23 min Scan# 2214

Delta R.T. -0.00 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

Instrument :

MSVOA_Y

ClientSampleId :

LOQ-SOIL-02-QT4-2019

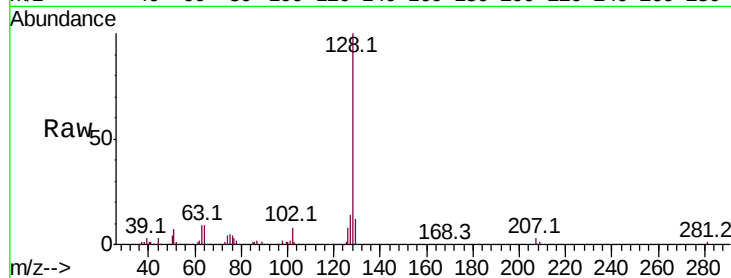
Tot Ion:128 Resp: 57656

Ion Ratio Lower Upper

128 100

127 12.9 9.6 14.4

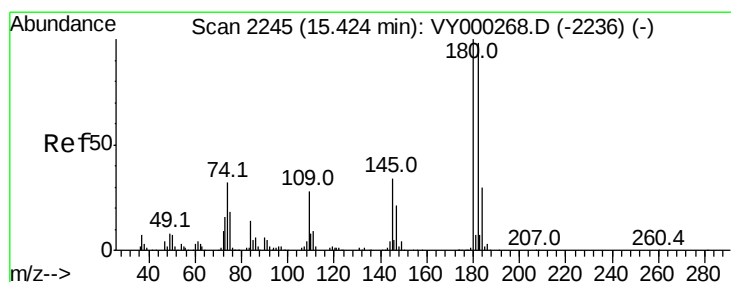
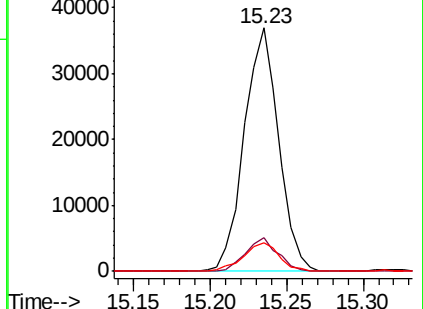
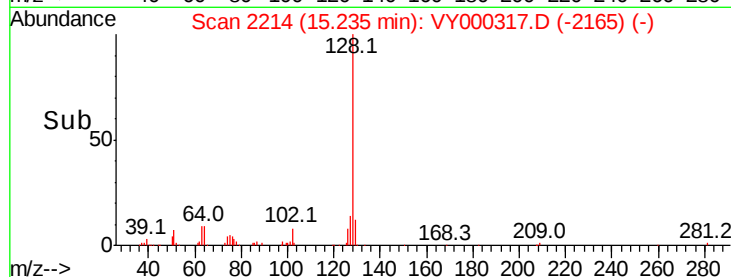
129 12.1 8.7 13.1



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: 5.653 ug/l

RT: 15.42 min Scan# 2244

Delta R.T. -0.01 min

Lab File: VY000317.D

Acq: 15 Oct 2019 14:02

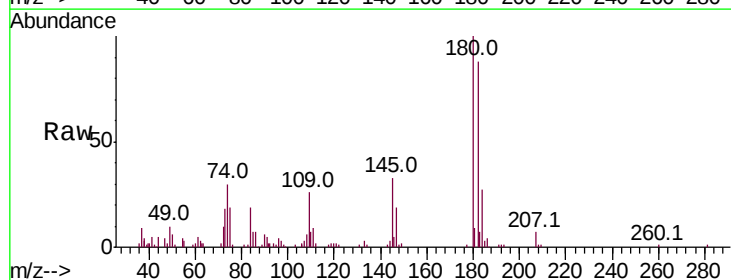
Tgt Ion:180 Resp: 23472

Ion Ratio Lower Upper

180 100

182 95.1 46.5 139.5

145 33.0 16.2 48.5



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

