

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061319\
 Data File : VL033911.D
 Acq On : 14 Jun 2019 00:10
 Operator : SY/AP
 Sample : K3357-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 14 05:36:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 07 08:53:27 2019
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	936605	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.29	114	2078693	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2425864	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.56	95	1767817	8.87	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	88.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.01	51	57114	0.518	ppbv #	79
4) Chloromethane	3.16	50	37617	0.598	ppbv #	88
7) Chloroethane	3.60	64	10611	0.460	ppbv	95
9) Propene	3.03	41	369924	8.966	ppbv	96
10) Heptane	8.23	43	268318	2.573	ppbv	98
11) Trichlorofluoromethane	3.99	101	56001	0.286	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.55	101	6969	0.053	ppbv #	13
13) Ethanol	3.66	45	460264	34.288	ppbv	97
15) Acetone	3.89	43	3118993	22.833	ppbv #	1
16) 1,3-Butadiene	3.38	39	79301	1.525	ppbv #	6
17) tert-Butyl alcohol	4.36	59	3362676	31.491	ppbv	99
19) Isopropyl Alcohol	4.03	45	3587517	45.973	ppbv #	94
20) Methylene Chloride	4.42	84	72062	1.353	ppbv	93
21) Allyl Chloride	4.43	41	11333	0.146	ppbv #	18
23) Vinyl Acetate	5.15	43	542990	3.420	ppbv #	94
25) Ethyl Acetate	5.77	43	112666	0.542	ppbv #	73
26) Hexane	5.77	57	252619	2.667	ppbv #	35
27) Carbon Disulfide	4.61	76	513030	3.899	ppbv	97
30) Cyclohexane	7.23	84	56095	0.838	ppbv	95
31) cis-1,2-Dichloroethene	5.65	61	4989	0.060	ppbv #	64
32) 1,1,1-Trichloroethane	6.62	97	4884	0.031	ppbv #	2
34) 2-Butanone	5.33	43	6213838	52.988	ppbv	97
35) Carbon Tetrachloride	7.13	117	9713	0.060	ppbv	90
36) Benzene	7.00	78	405612	2.554	ppbv	97
37) 1,2-Dichloroethane	6.41	62	10365	0.088	ppbv #	80
38) Trichloroethene	7.96	130	35355	0.572	ppbv #	85
39) 1,2-Dichloropropane	7.29	63	533971	8.713	ppbv #	25
41) Tetrahydrofuran	6.14	42	496020	8.334	ppbv	98
42) Bromodichloromethane	7.91	83	20358	0.130	ppbv #	56
43) Methyl Methacrylate	8.13	69	2352	0.040	ppbv #	1
44) 2,2,4-Trimethylpentane	7.98	57	411887	1.459	ppbv #	81
50) 4-Methyl-2-Pentanone	8.86	43	199416	1.140	ppbv	94
51) 2-Hexanone	10.25	43	778046	5.698	ppbv #	96
52) Tetrachloroethene	11.36	164	271936	4.867	ppbv	92
53) Toluene	9.94	91	1445161	8.224	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.52	131	1454509	13.725	ppbv #	37
58) Ethyl Benzene	12.85	91	209187	0.765	ppbv	97
59) m/p-Xylene	13.11	91	531044	2.135	ppbv	98
60) o-Xylene	13.83	91	277438	1.080	ppbv	96
61) Styrene	13.67	104	132720	0.799	ppbv	98
62) Isopropylbenzene	14.81	105	99624	0.288	ppbv #	53

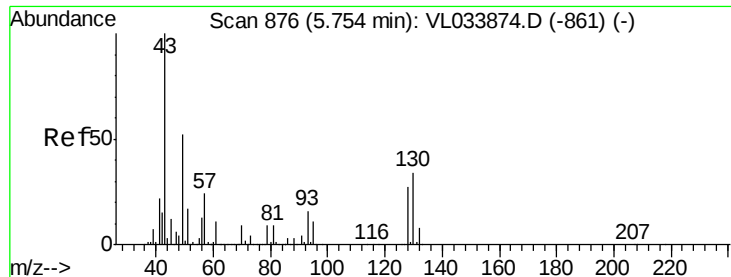
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061319\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) n-propylbenzene	15.71	120	186370	2.103	ppbv	99
65) tert-Butylbenzene	16.90	119	95509	0.298	ppbv #	19
66) Benzyl Chloride	17.36	91	10029	0.062	ppbv #	75
67) sec-Butylbenzene	17.44	105	46434	0.103	ppbv	94
69) p-Isopropyltoluene	17.68	119	70263	0.188	ppbv	91
70) n-Butylbenzene	18.70	91	36996	0.090	ppbv #	67
71) 2-Chlorotoluene	15.46	91	53679	0.211	ppbv #	54
72) 4-Ethyltoluene	15.98	105	1063429	3.639	ppbv	98
73) 1,3,5-Trimethylbenzene	16.15	105	787624	2.736	ppbv	99
74) 1,2,4-Trimethylbenzene	16.91	105	1733866	5.226	ppbv #	74
76) 1,4-Dichlorobenzene	17.29	146	9409	0.049	ppbv #	1
79) Naphthalene	22.39	128	18348	0.069	ppbv #	70
80) Naphthalene,2-methyl-	25.10	142	7752	0.073	ppbv #	81

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. 0.01 min

Lab File: VL033911.D

Acq: 14 Jun 2019 00:10

Instrument :

MSVOA_L

ClientSampleId :

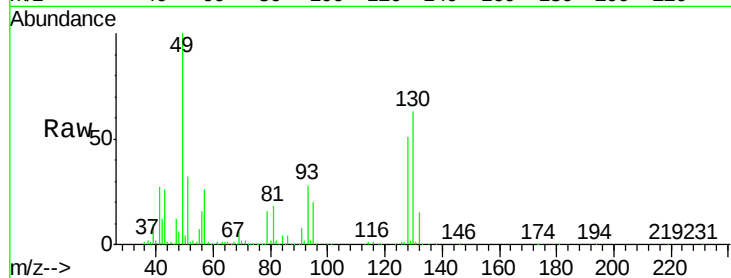
Tot Ion: 49 Resp: 936605

Ion Ratio Lower Upper

49 100

128 51.1 25.5 76.5

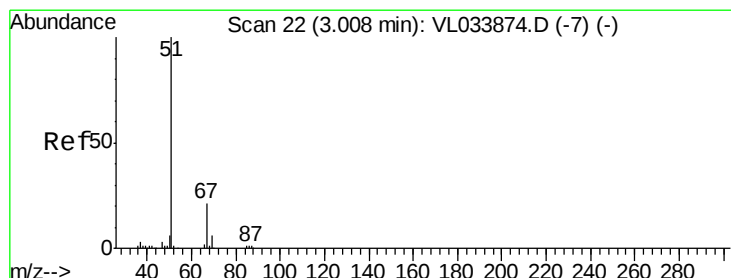
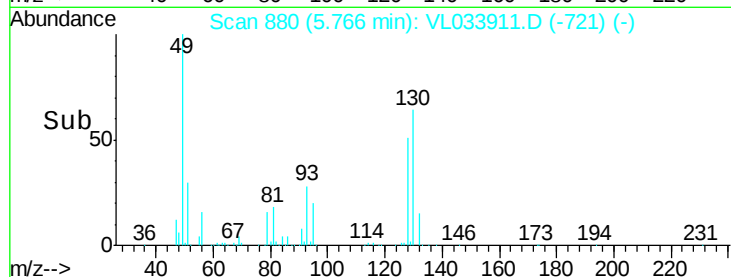
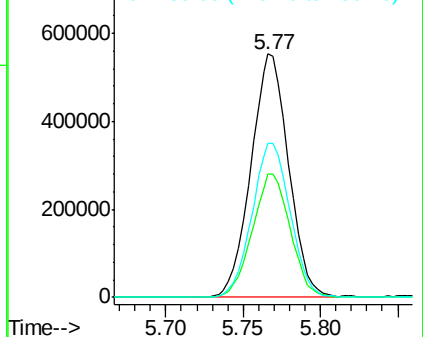
130 64.3 32.5 97.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.518 ppbv

RT: 3.01 min Scan# 22

Delta R.T. -0.00 min

Lab File: VL033911.D

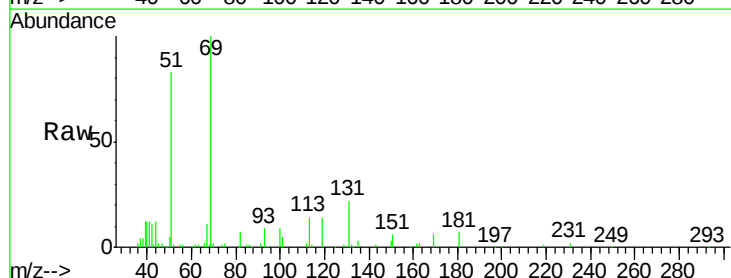
Acq: 14 Jun 2019 00:10

Tgt Ion: 51 Resp: 57114

Ion Ratio Lower Upper

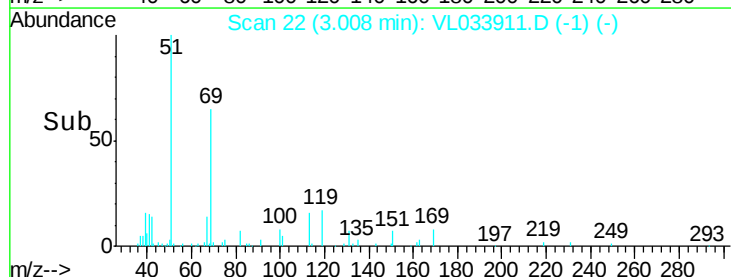
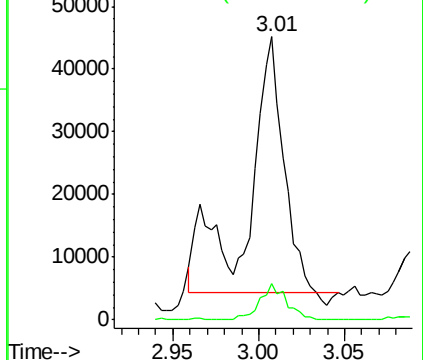
51 100

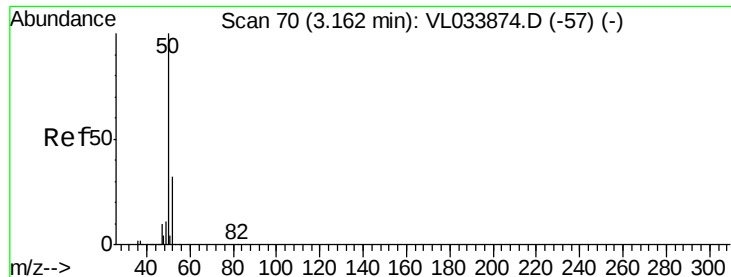
67 10.9 16.4 24.6#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.598 ppbv

RT: 3.16 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL033911.D

Acq: 14 Jun 2019 00:10

Instrument :

MSVOA_L

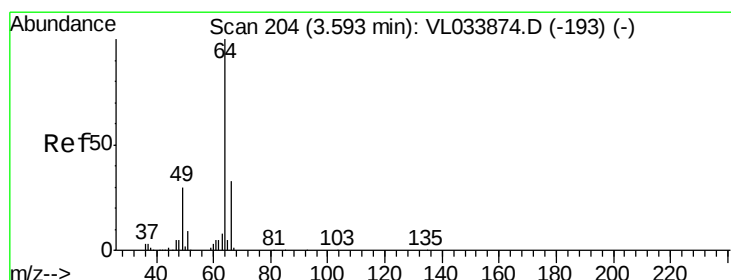
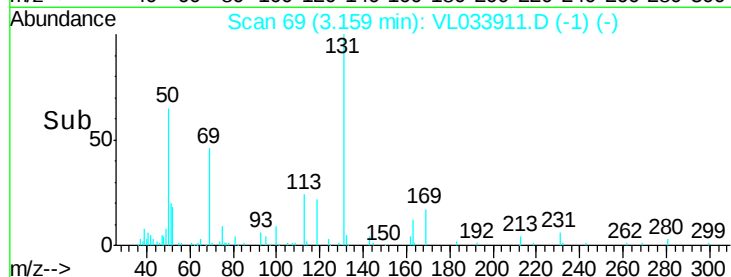
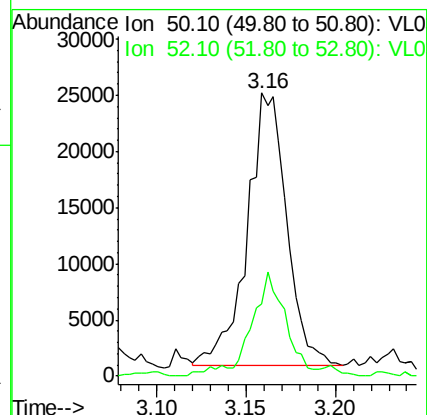
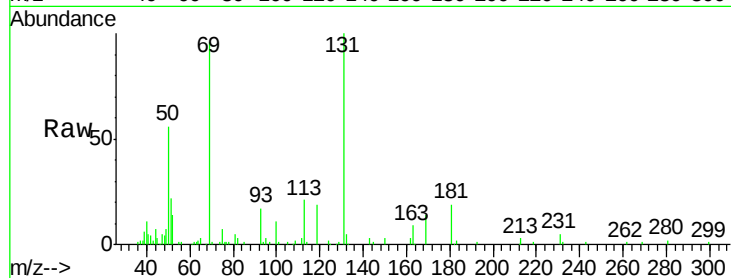
ClientSampleId :

Tot Ion: 50 Resp: 37617

Ion Ratio Lower Upper

50 100

52 25.1 25.4 38.0#



#7

Chloroethane

Concen: 0.460 ppbv

RT: 3.60 min Scan# 205

Delta R.T. 0.00 min

Lab File: VL033911.D

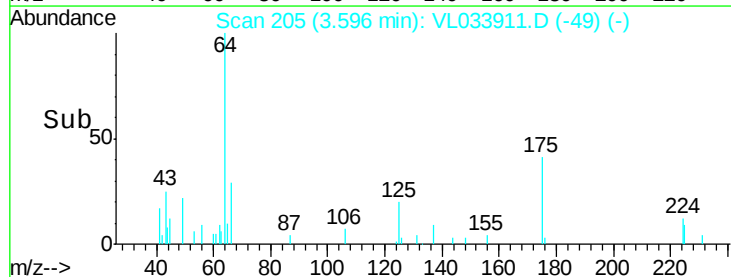
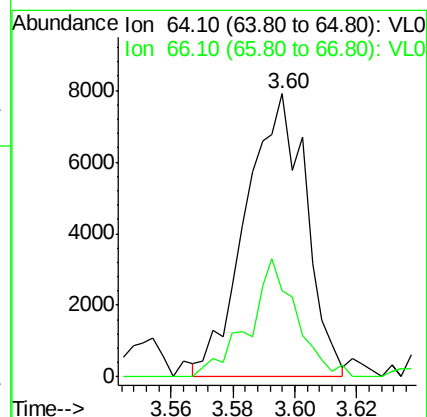
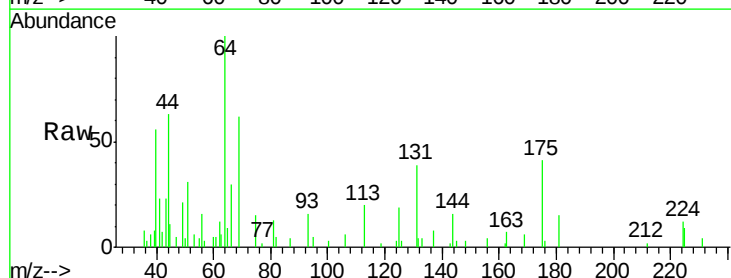
Acq: 14 Jun 2019 00:10

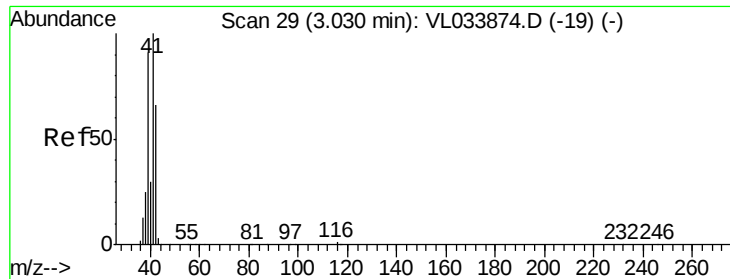
Tgt Ion: 64 Resp: 10611

Ion Ratio Lower Upper

64 100

66 30.3 26.7 40.1





#9

Propene

Concen: 8.966 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.00 min

Lab File: VL033911.D

Acq: 14 Jun 2019 00:10

Instrument :

MSVOA_L

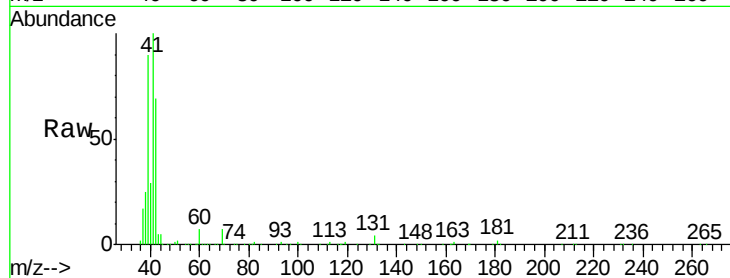
ClientSampleId :

Tot Ion: 41 Resp: 369924

Ion Ratio Lower Upper

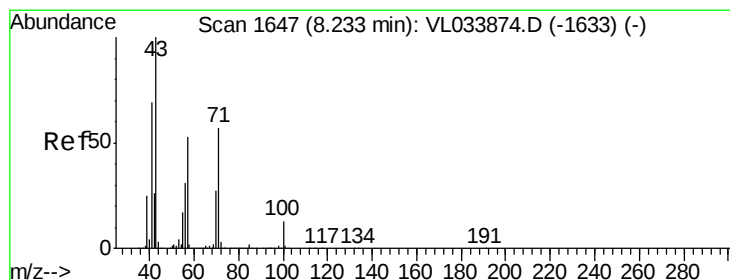
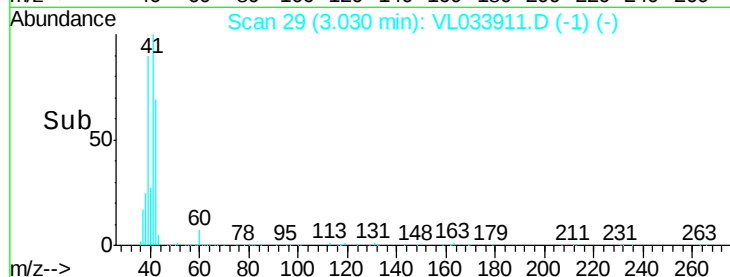
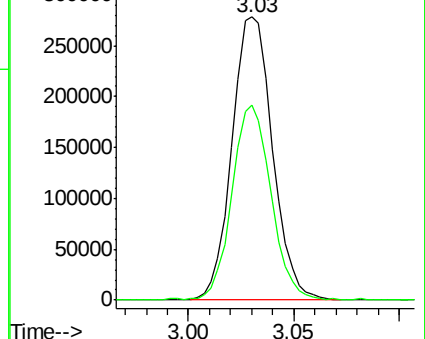
41 100

42 67.1 56.3 84.5



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 2.573 ppbv

RT: 8.23 min Scan# 1647

Delta R.T. -0.00 min

Lab File: VL033911.D

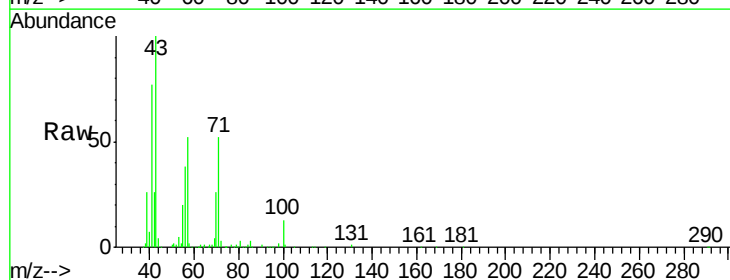
Acq: 14 Jun 2019 00:10

Tgt Ion: 43 Resp: 268318

Ion Ratio Lower Upper

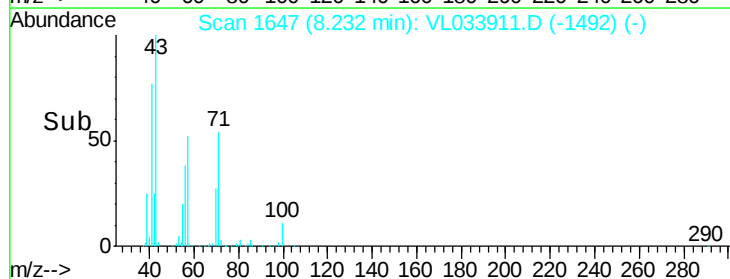
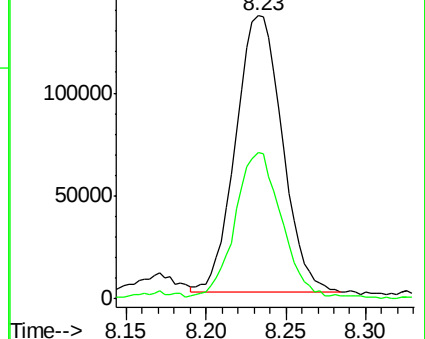
43 100

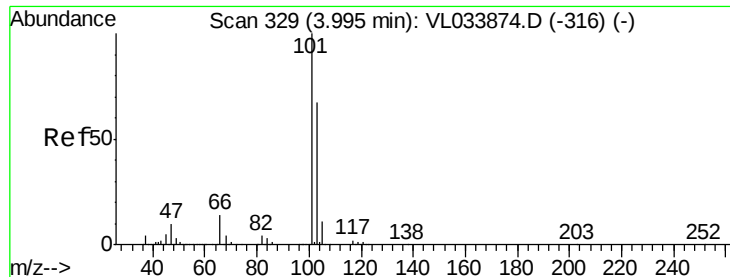
57 53.4 41.7 62.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 0.286 ppbv

RT: 3.99 min Scan# 329

Delta R.T. -0.00 min

Lab File: VL033911.D

Acq: 14 Jun 2019 00:10

Instrument :

MSVOA_L

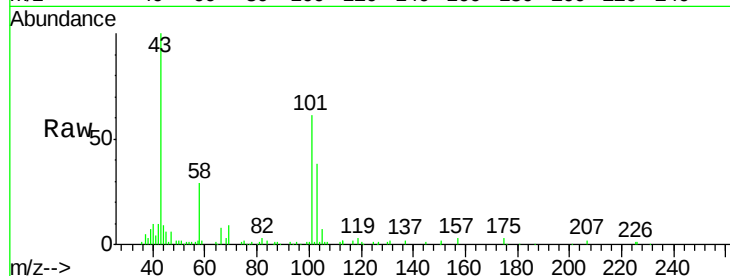
ClientSampled :

Tot Ion:101 Resp: 56001

Ion Ratio Lower Upper

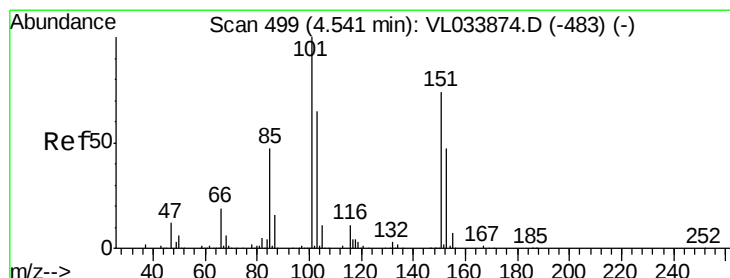
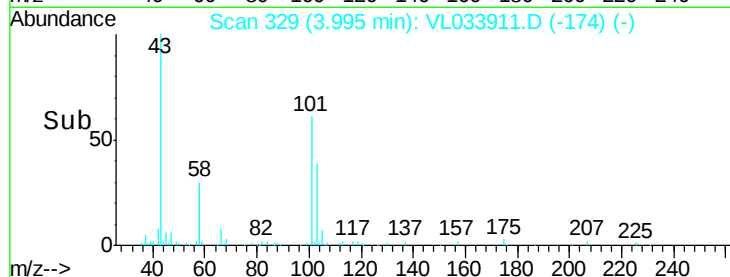
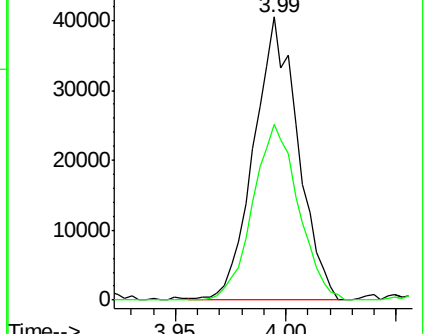
101 100

103 62.4 53.6 80.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.053 ppbv

RT: 4.55 min Scan# 501

Delta R.T. 0.01 min

Lab File: VL033911.D

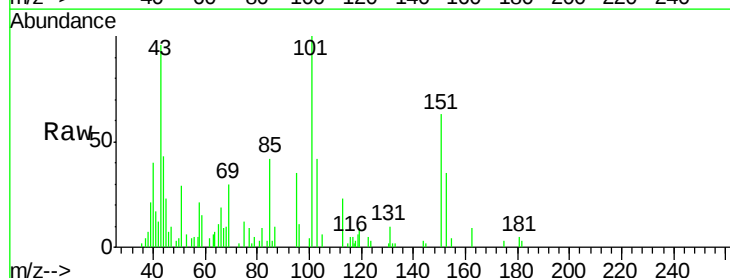
Acq: 14 Jun 2019 00:10

Tgt Ion:101 Resp: 6969

Ion Ratio Lower Upper

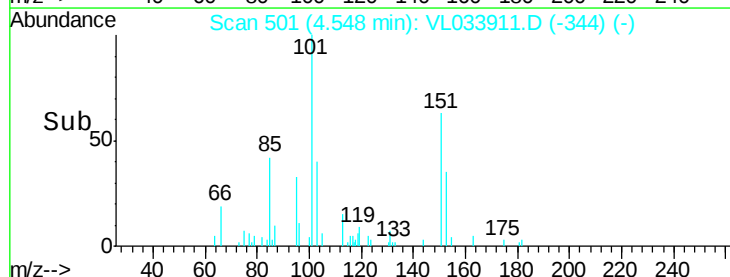
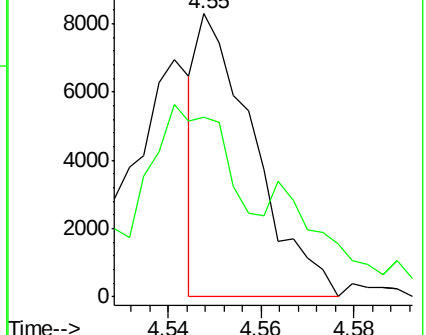
101 100

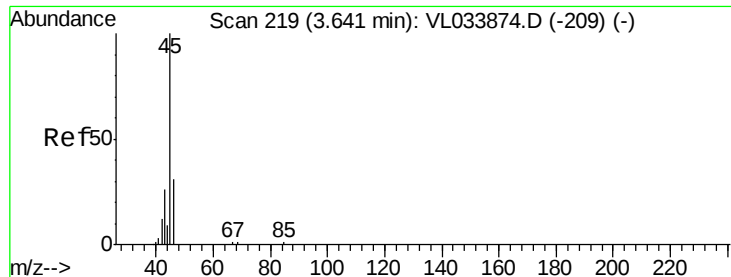
151 0.0 58.6 87.8#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

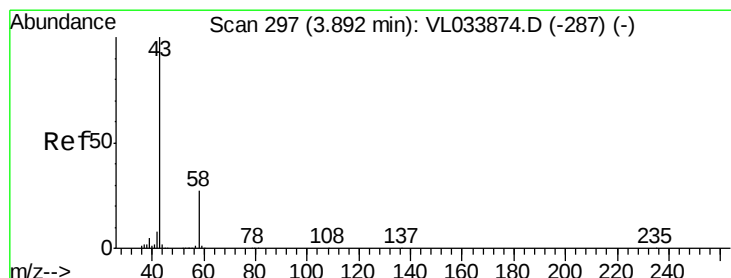
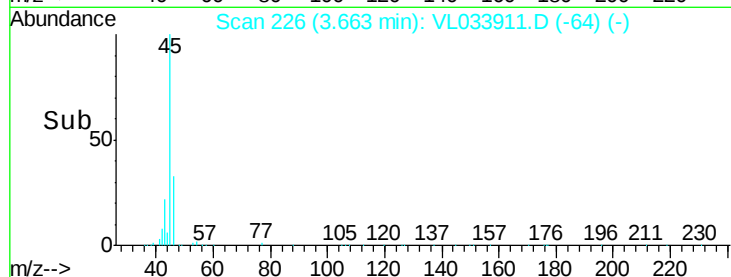
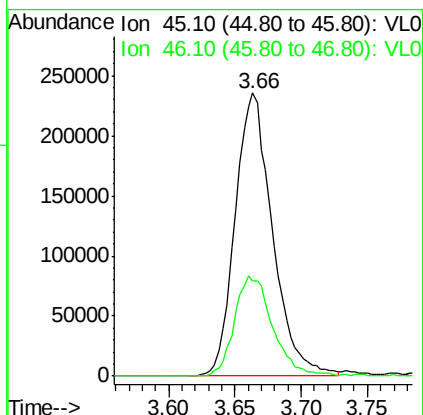
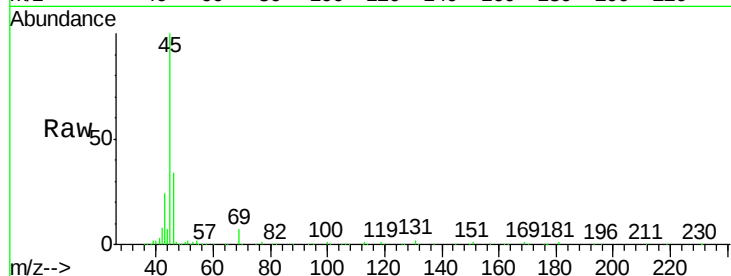




#13
Ethanol
Concen: 34.288 ppbv
RT: 3.66 min Scan# 226
Delta R.T. 0.02 min
Lab File: VL033911.D
Acq: 14 Jun 2019 00:10

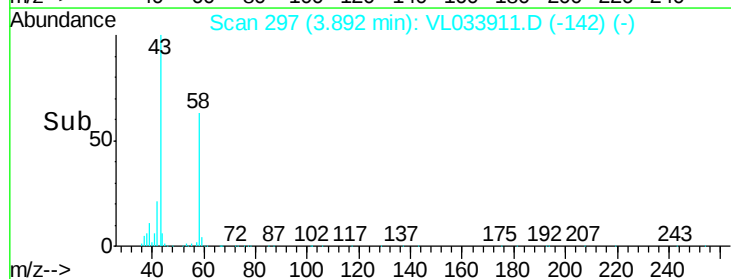
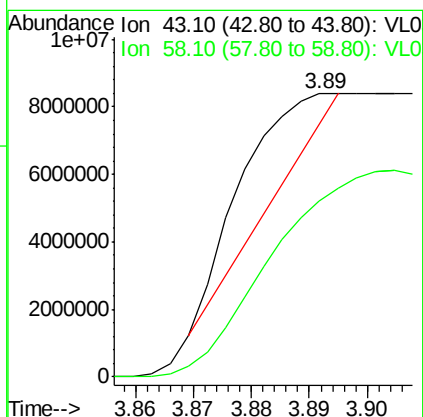
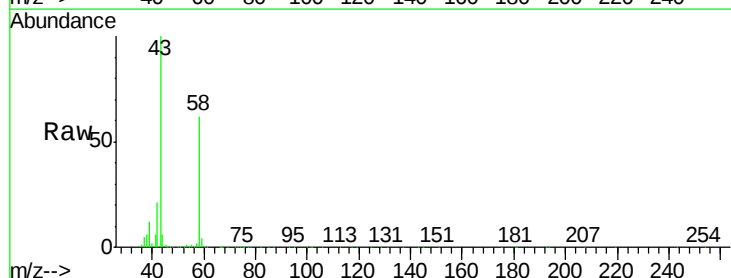
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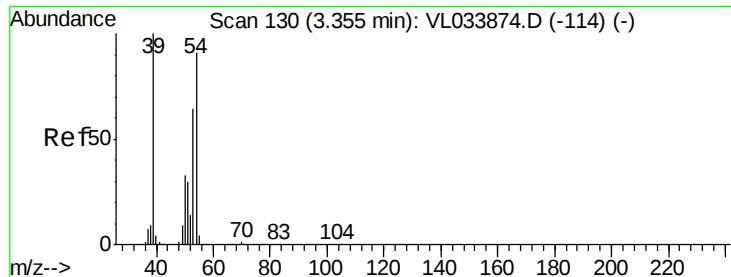
Tot Ion: 45 Resp: 460264
Ion Ratio Lower Upper
45 100
46 36.3 15.3 61.1



#15
Acetone
Concen: 22.833 ppbv
RT: 3.89 min Scan# 297
Delta R.T. -0.00 min
Lab File: VL033911.D
Acq: 14 Jun 2019 00:10

Tgt Ion: 43 Resp: 3118993
Ion Ratio Lower Upper
43 100
58 490.5 21.3 31.9#

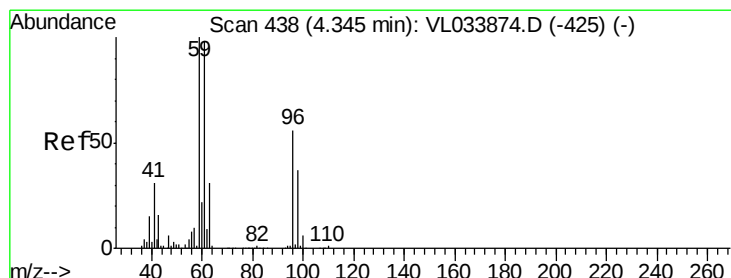
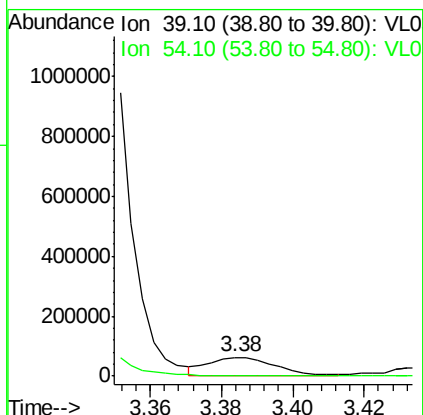
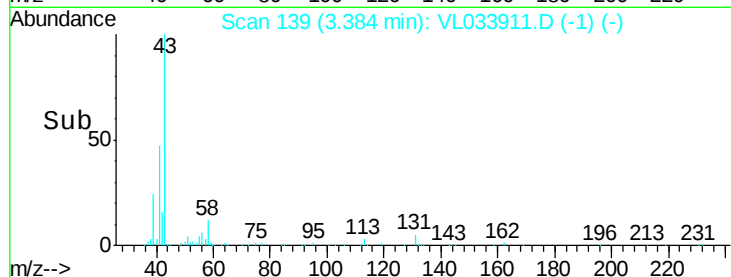
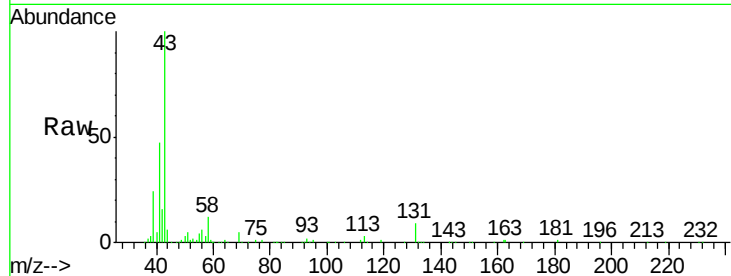




#16
 1,3-Butadiene
 Concen: 1.525 ppbv
 RT: 3.38 min Scan# 139
 Delta R.T. 0.03 min
 Lab File: VL033911.D
 Acq: 14 Jun 2019 00:10

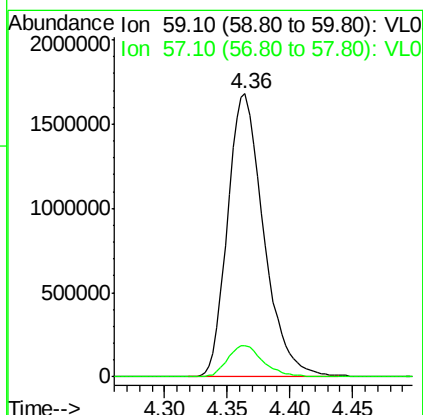
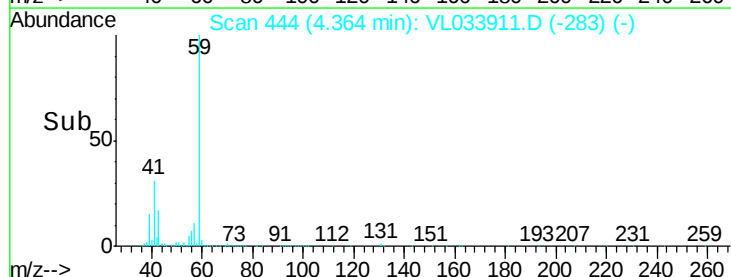
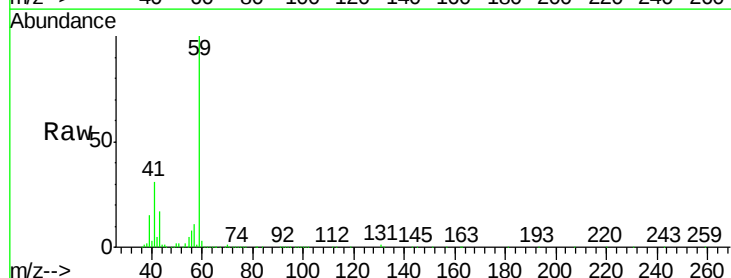
Instrument :
 MSVOA_L
 ClientSampleId :

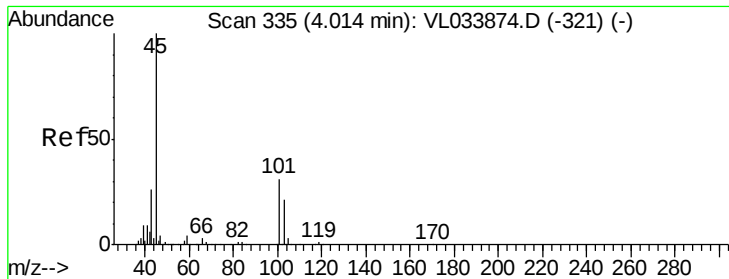
Tot Ion: 39 Resp: 79301
 Ion Ratio Lower Upper
 39 100
 54 0.0 68.6 103.0#



#17
 tert-Butyl alcohol
 Concen: 31.491 ppbv
 RT: 4.36 min Scan# 444
 Delta R.T. 0.02 min
 Lab File: VL033911.D
 Acq: 14 Jun 2019 00:10

Tgt Ion: 59 Resp: 3362676
 Ion Ratio Lower Upper
 59 100
 57 10.9 8.4 12.6



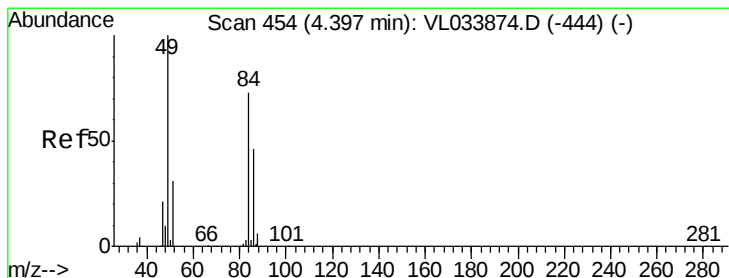
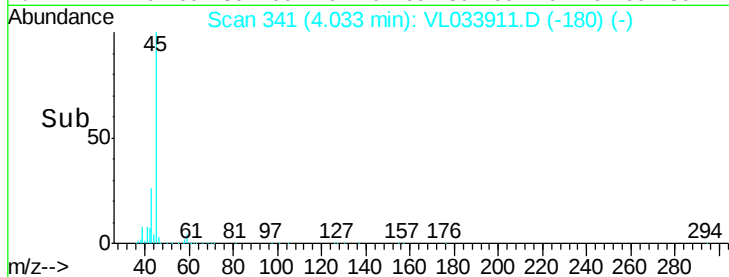
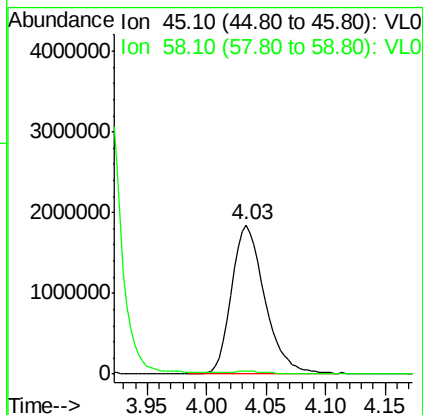
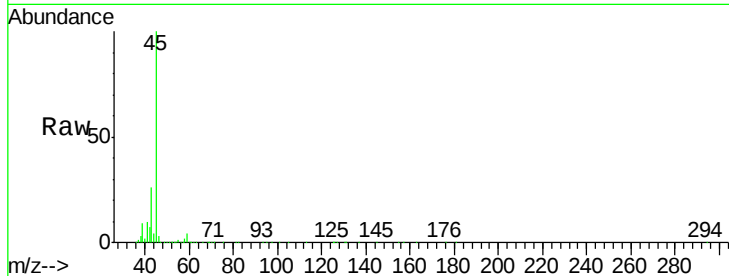


#19

Isopropyl Alcohol
 Concen: 45.973 ppbv
 RT: 4.03 min Scan# 341
 Delta R.T. 0.02 min
 Lab File: VL033911.D
 Acq: 14 Jun 2019 00:10

Instrument :
 MSVOA_L
 ClientSampleId :

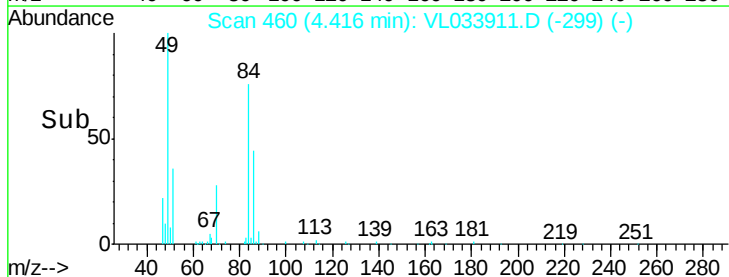
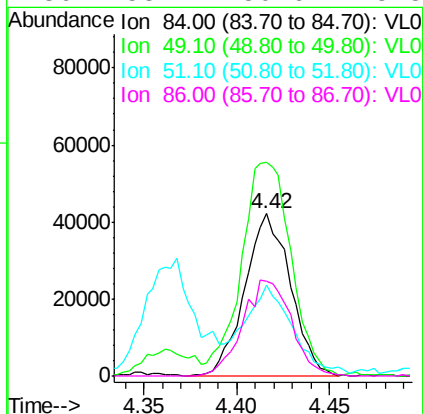
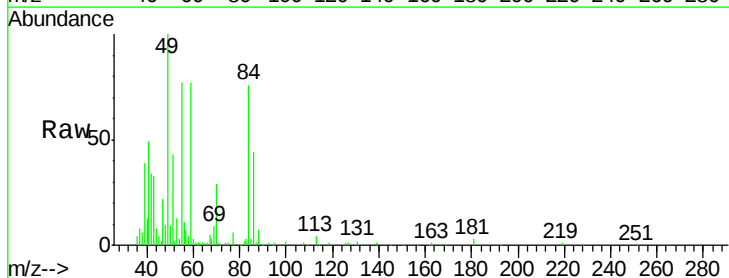
Tot Ion: 45 Resp: 3587517
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.8 2.6#

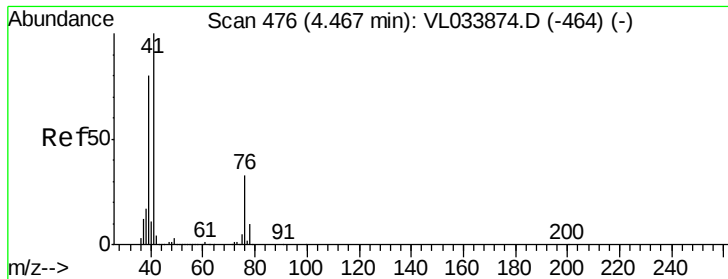


#20

Methylene Chloride
 Concen: 1.353 ppbv
 RT: 4.42 min Scan# 460
 Delta R.T. 0.02 min
 Lab File: VL033911.D
 Acq: 14 Jun 2019 00:10

Tgt Ion: 84 Resp: 72062
 Ion Ratio Lower Upper
 84 100
 49 130.4 110.0 165.0
 51 49.4 34.6 51.8
 86 58.4 50.6 75.8





#21

Allvl Chloride

Concen: 0.146 ppbv

RT: 4.43 min Scan# 463

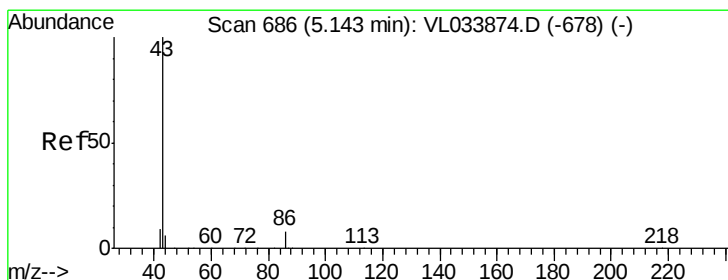
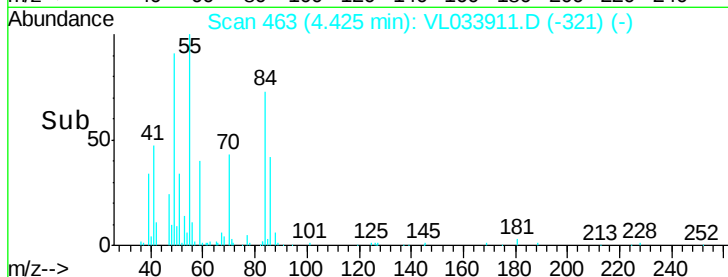
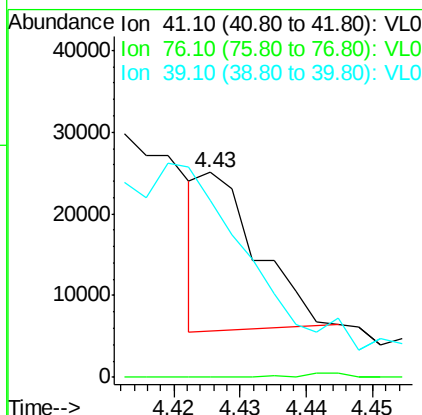
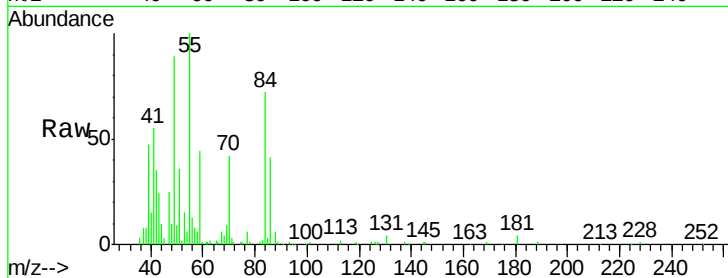
Delta R.T. -0.04 min

Lab File: VL033911.D

Acq: 14 Jun 2019 00:10

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	41	Resp:	11333
Ion	Ratio	Lower	Upper
41	100		
76	0.0	26.6	39.8#
39	0.0	65.2	97.8#



#23

Vinyl Acetate

Concen: 3.420 ppbv

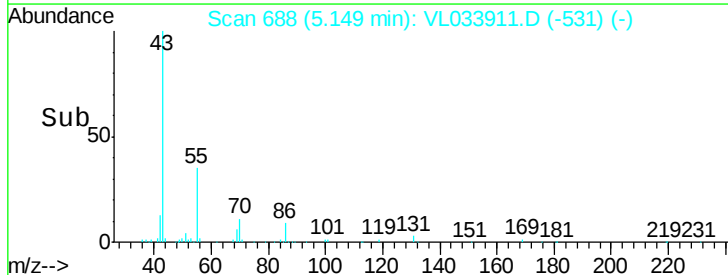
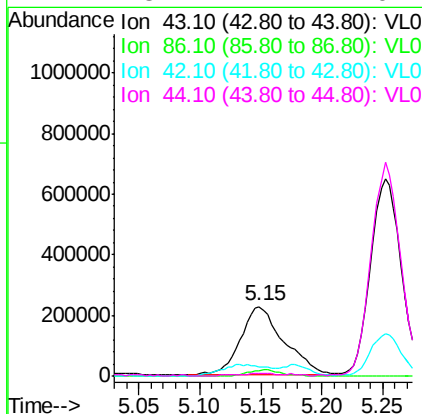
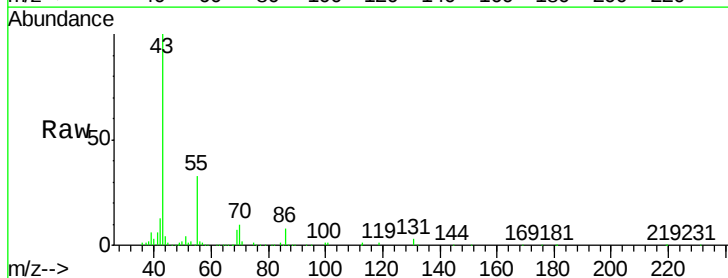
RT: 5.15 min Scan# 688

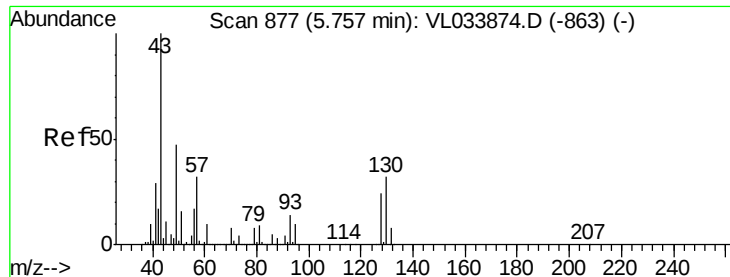
Delta R.T. 0.01 min

Lab File: VL033911.D

Acq: 14 Jun 2019 00:10

Tgt Ion:	43	Resp:	542990
Ion	Ratio	Lower	Upper
43	100		
86	8.4	5.8	8.8
42	12.9	7.8	11.8#
44	3.1	4.2	6.4#

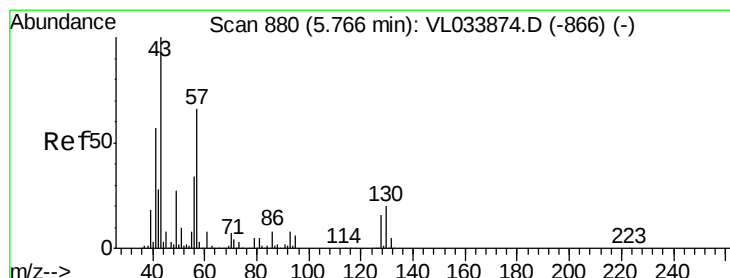
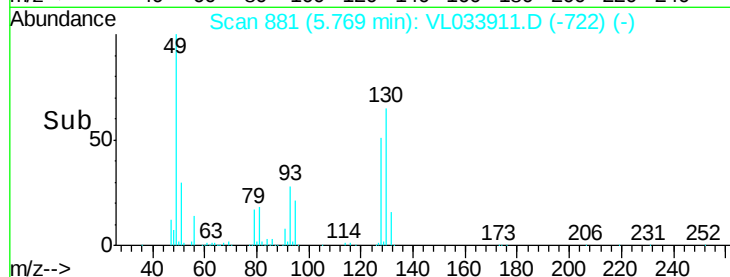
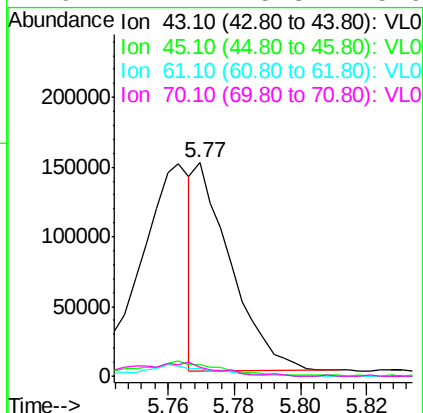
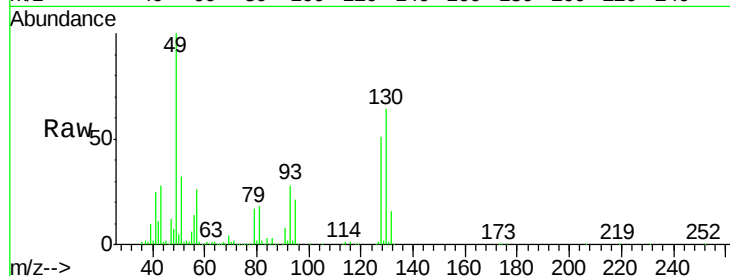




#25
Ethyl Acetate
Concen: 0.542 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.01 min
Lab File: VL033911.D
Acq: 14 Jun 2019 00:10

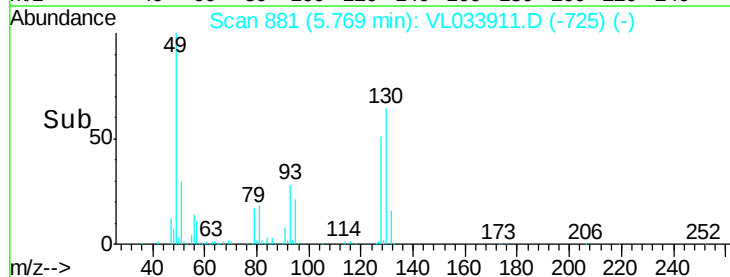
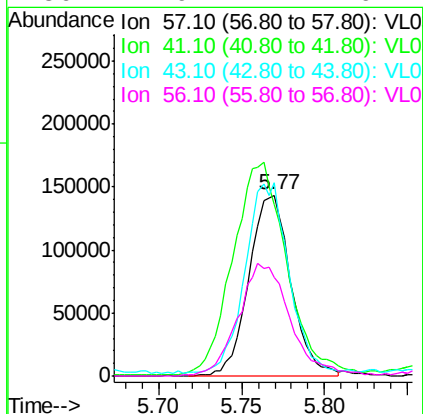
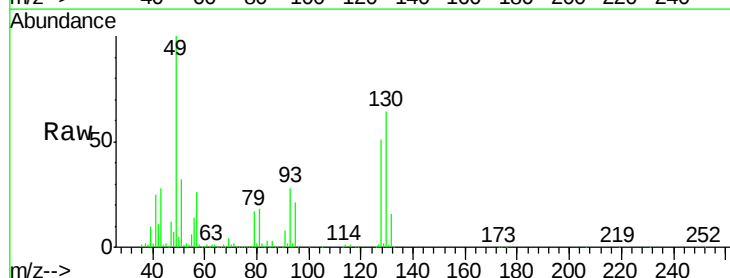
Instrument :
MSVOA_L
ClientSampleId :

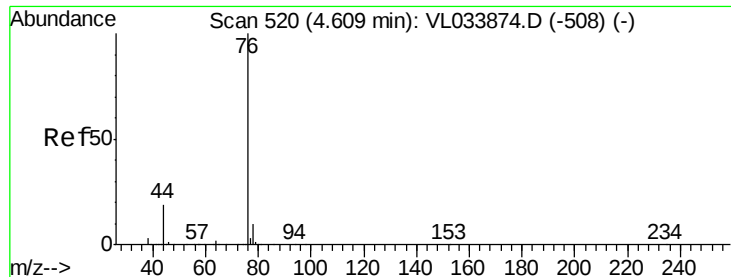
Tot Ion: 43 Resp: 112666
Ion Ratio Lower Upper
43 100
45 0.0 7.9 11.9#
61 0.0 7.8 11.6#
70 17.4 5.8 8.6#



#26
Hexane
Concen: 2.667 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.00 min
Lab File: VL033911.D
Acq: 14 Jun 2019 00:10

Tgt Ion: 57 Resp: 252619
Ion Ratio Lower Upper
57 100
41 152.2 71.4 107.2#
43 112.8 183.7 275.5#
56 77.9 42.7 64.1#





#27

Carbon Disulfide

Concen: 3.899 ppbv

RT: 4.61 min Scan# 520

Delta R.T. -0.00 min

Lab File: VL033911.D

Acq: 14 Jun 2019 00:10

Instrument :

MSVOA_L

ClientSampleId :

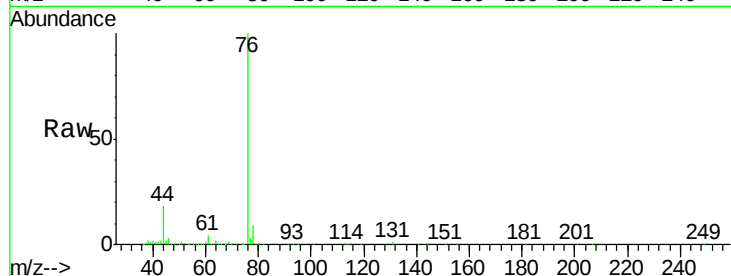
Tot Ion: 76 Resp: 513030

Ion Ratio Lower Upper

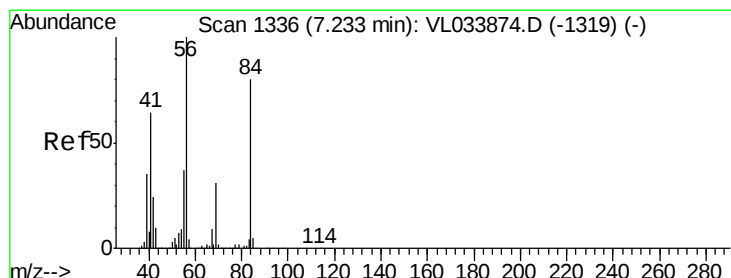
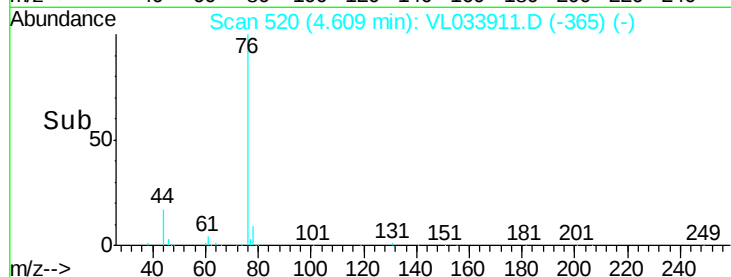
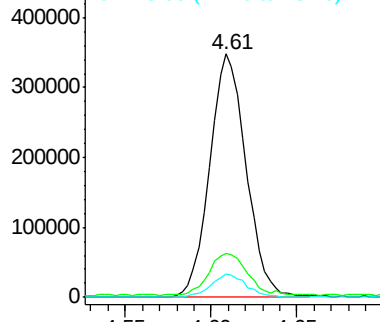
76 100

44 19.8 14.4 21.6

78 9.5 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#30

Cyclohexane

Concen: 0.838 ppbv

RT: 7.23 min Scan# 1336

Delta R.T. -0.00 min

Lab File: VL033911.D

Acq: 14 Jun 2019 00:10

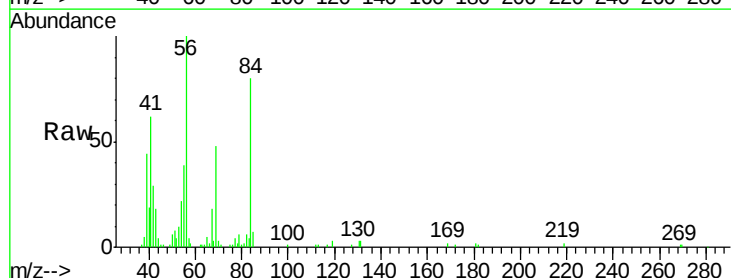
Tgt Ion: 84 Resp: 56095

Ion Ratio Lower Upper

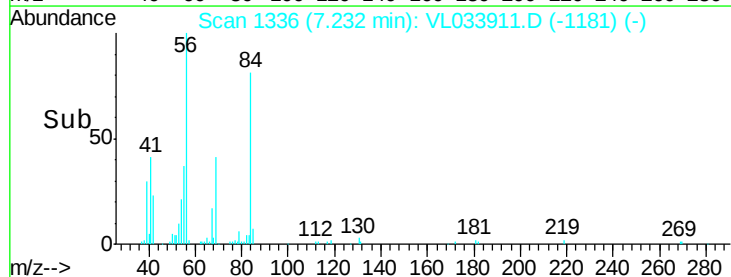
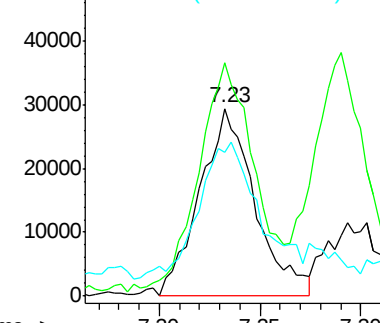
84 100

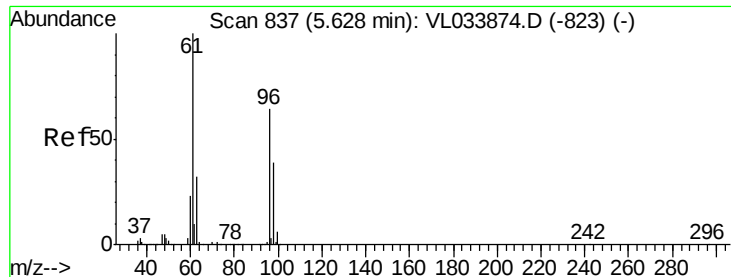
56 125.2 105.8 158.8

41 85.3 65.7 98.5



Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

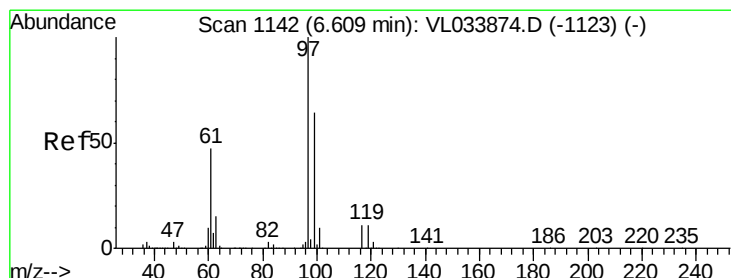
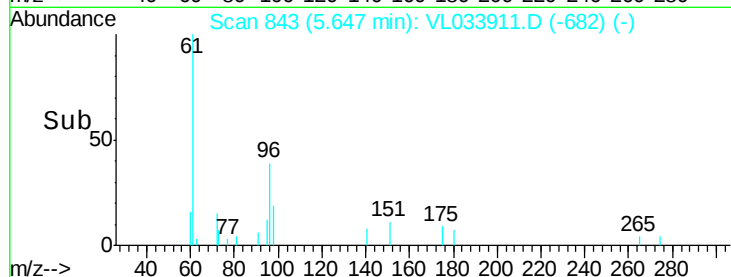
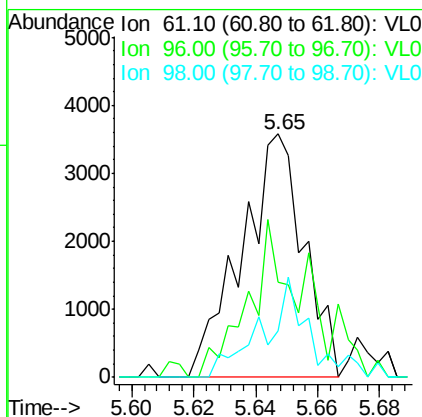
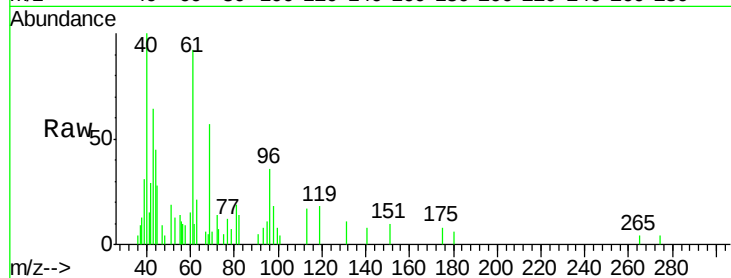




#31
 cis-1,2-Dichloroethene
 Concen: 0.060 ppbv
 RT: 5.65 min Scan# 843
 Delta R.T. 0.02 min
 Lab File: VL033911.D
 Acq: 14 Jun 2019 00:10

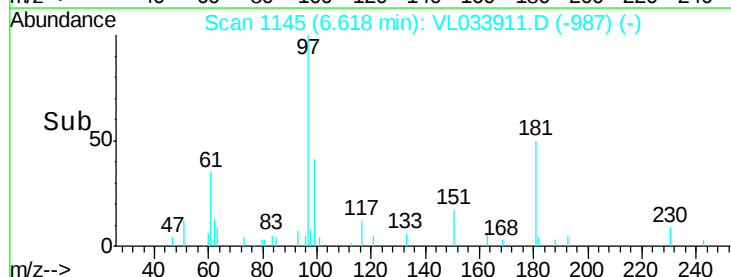
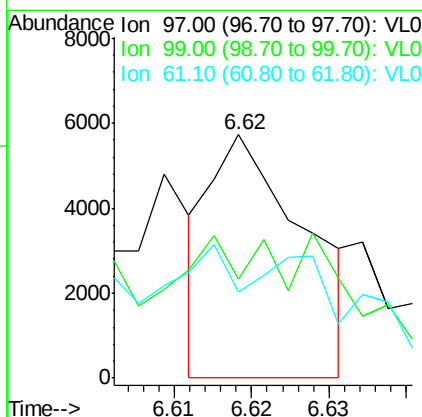
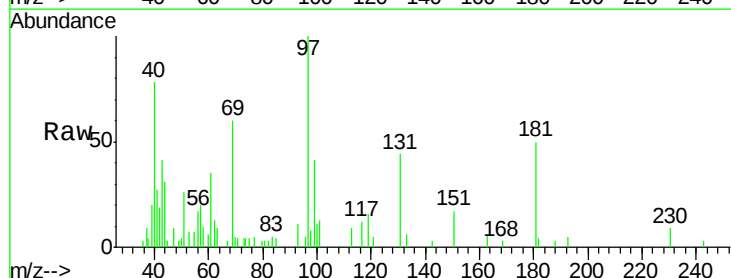
Instrument :
 MSVOA_L
 ClientSampleId :

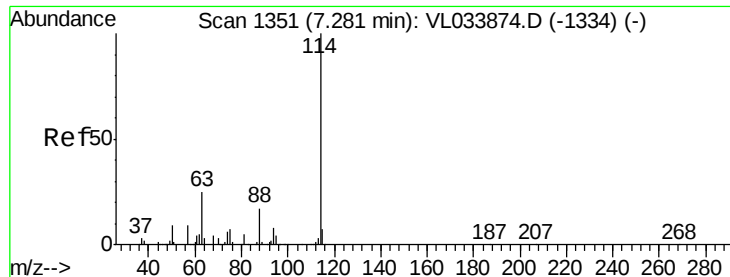
Tot Ion: 61 Resp: 4989
 Ion Ratio Lower Upper
 61 100
 96 35.0 50.9 76.3#
 98 17.4 31.4 47.2#



#32
 1,1,1-Trichloroethane
 Concen: 0.031 ppbv
 RT: 6.62 min Scan# 1145
 Delta R.T. 0.01 min
 Lab File: VL033911.D
 Acq: 14 Jun 2019 00:10

Tgt Ion: 97 Resp: 4884
 Ion Ratio Lower Upper
 97 100
 99 0.0 51.7 77.5#
 61 127.5 37.7 56.5#

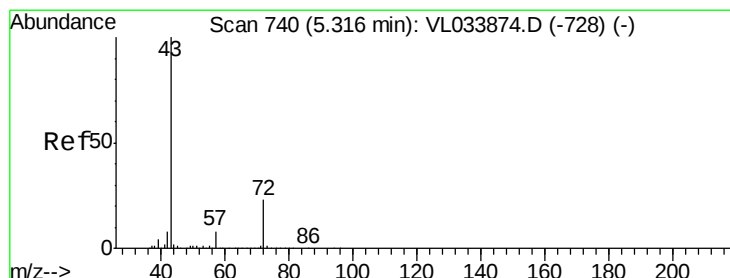
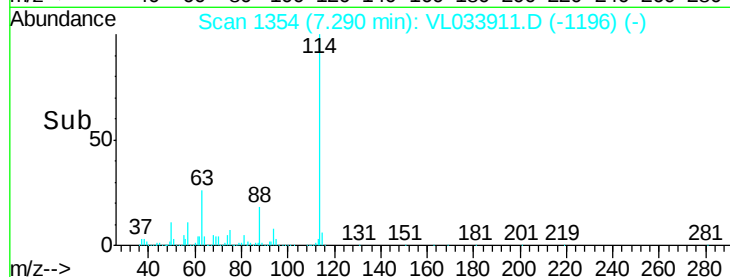
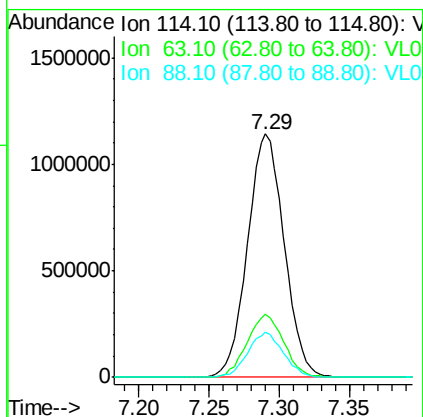
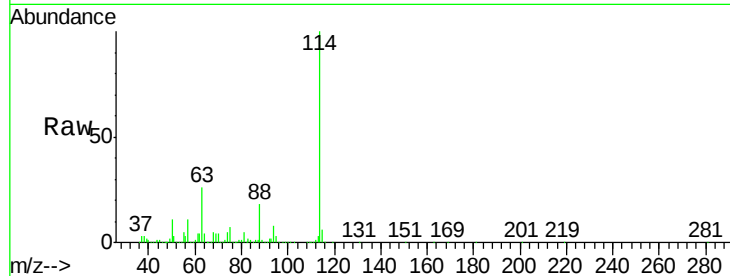




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. 0.01 min
 Lab File: VL033911.D
 Acq: 14 Jun 2019 00:10

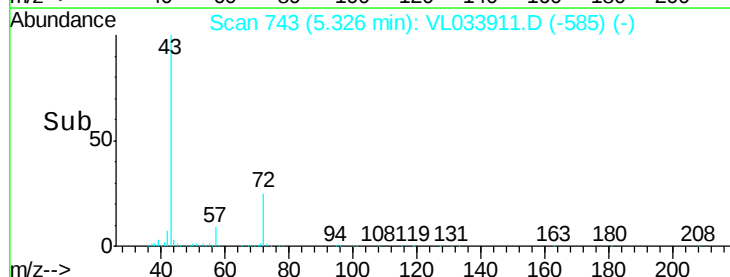
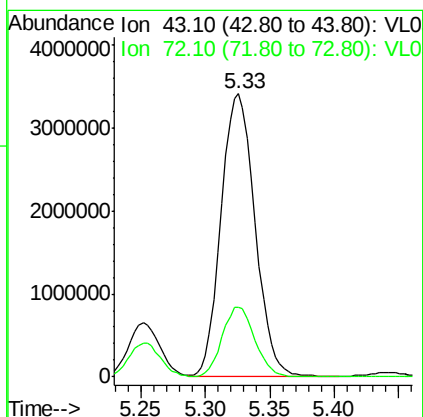
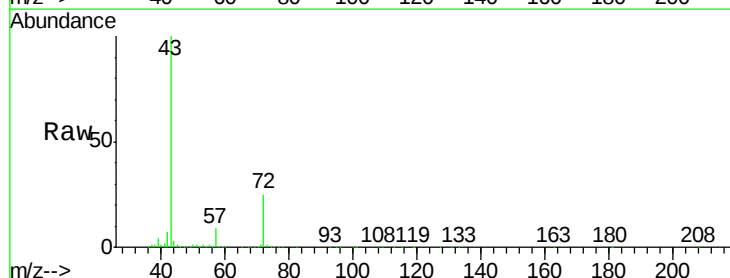
Instrument :
 MSVOA_L
 ClientSampleId :

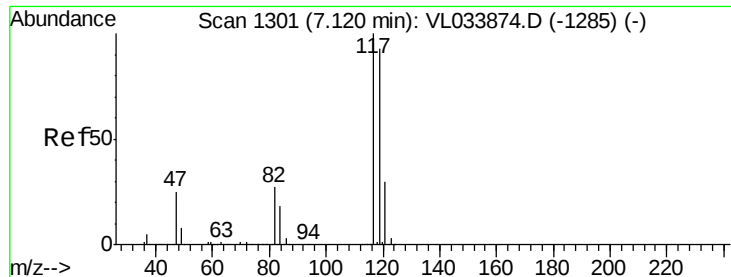
Tot Ion:114 Resp: 2078693
 Ion Ratio Lower Upper
 114 100
 63 26.2 21.1 31.7
 88 18.0 14.2 21.4



#34
 2-Butanone
 Concen: 52.988 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. 0.01 min
 Lab File: VL033911.D
 Acq: 14 Jun 2019 00:10

Tgt Ion: 43 Resp: 6213838
 Ion Ratio Lower Upper
 43 100
 72 23.8 17.9 26.9

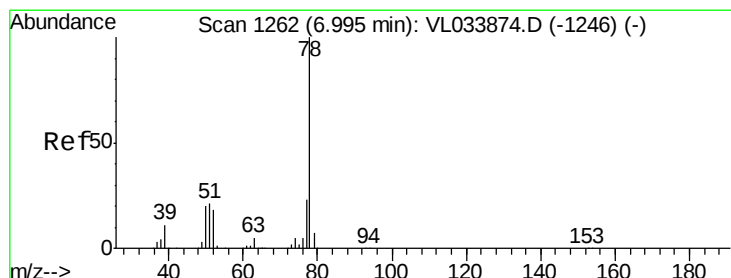
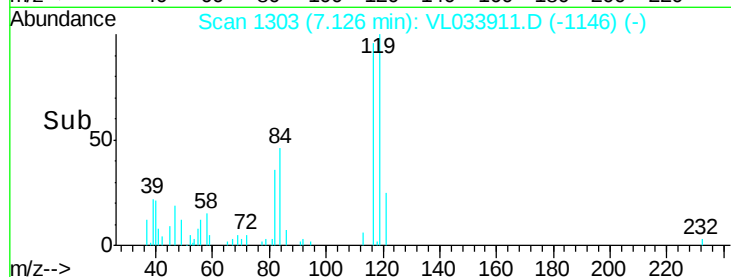
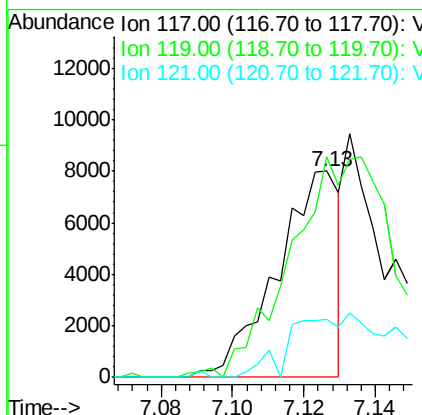
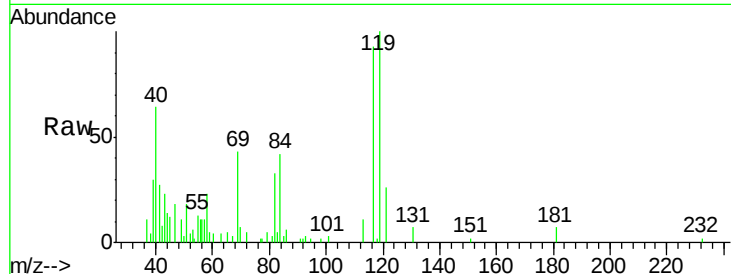




#35
Carbon Tetrachloride
Concen: 0.060 ppbv
RT: 7.13 min Scan# 1303
Delta R.T. 0.01 min
Lab File: VL033911.D
Acq: 14 Jun 2019 00:10

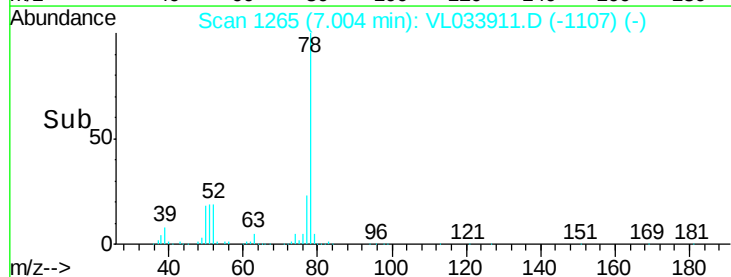
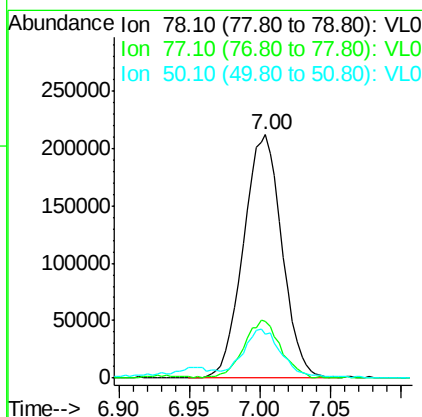
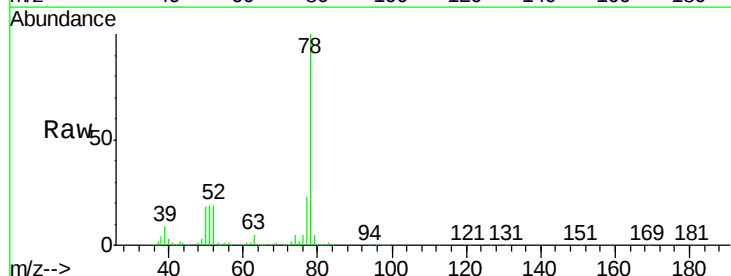
Instrument :
MSVOA_L
ClientSampleId :

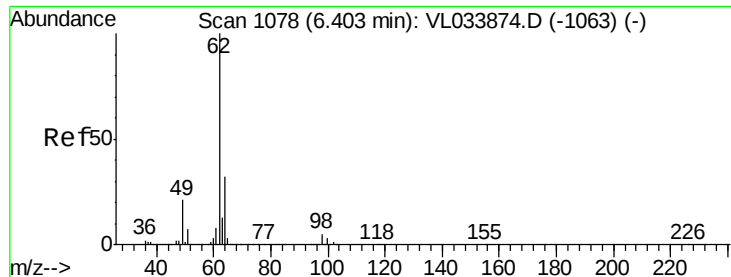
Tot Ion:117 Resp: 9713
Ion Ratio Lower Upper
117 100
119 105.2 74.6 111.8
121 28.1 24.0 36.0



#36
Benzene
Concen: 2.554 ppbv
RT: 7.00 min Scan# 1265
Delta R.T. 0.01 min
Lab File: VL033911.D
Acq: 14 Jun 2019 00:10

Tgt Ion: 78 Resp: 405612
Ion Ratio Lower Upper
78 100
77 22.9 18.2 27.2
50 17.4 15.9 23.9

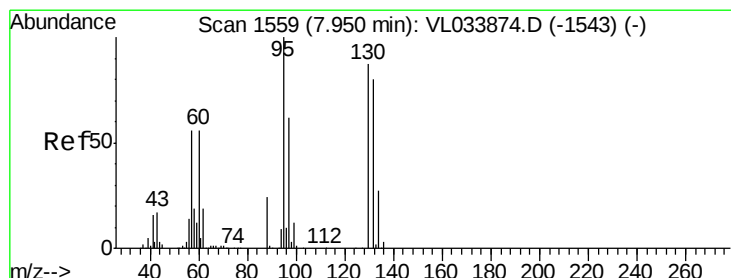
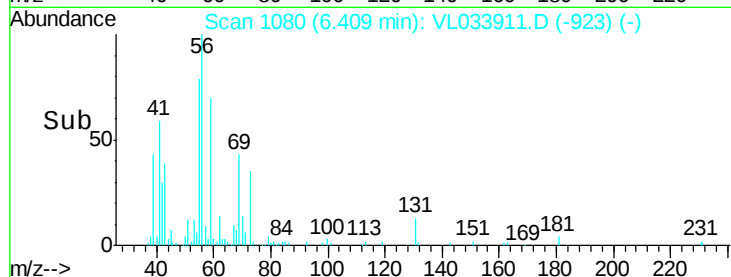
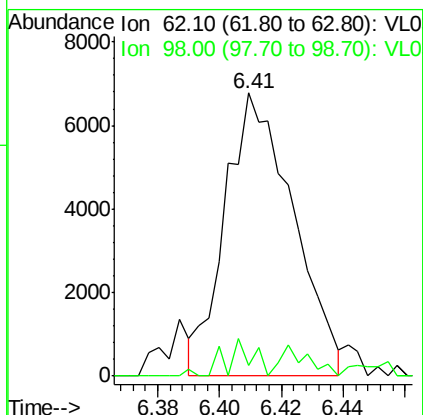
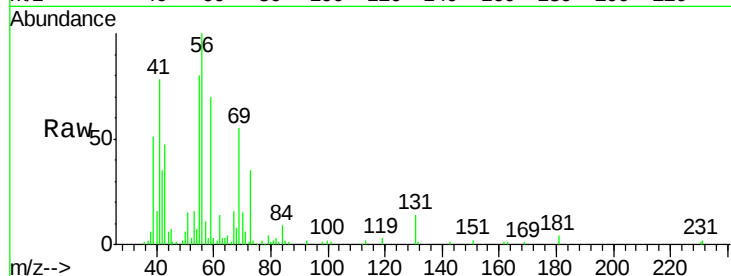




#37
 1,2-Dichloroethane
 Concen: 0.088 ppbv
 RT: 6.41 min Scan# 1080
 Delta R.T. 0.01 min
 Lab File: VL033911.D
 Acq: 14 Jun 2019 00:10

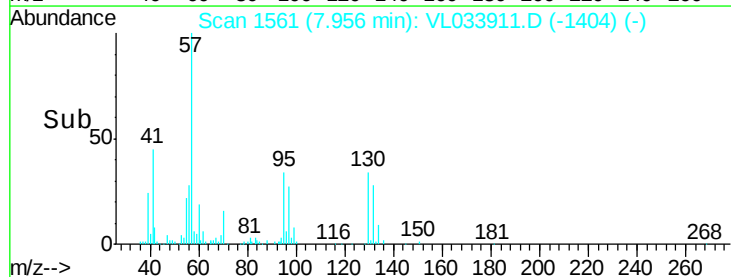
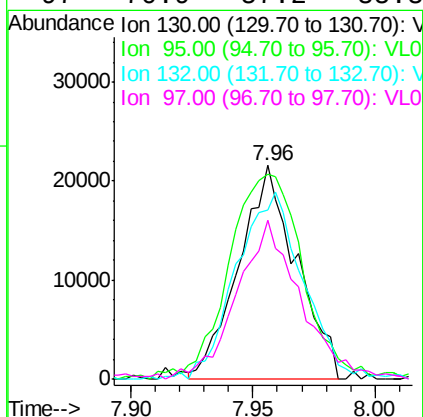
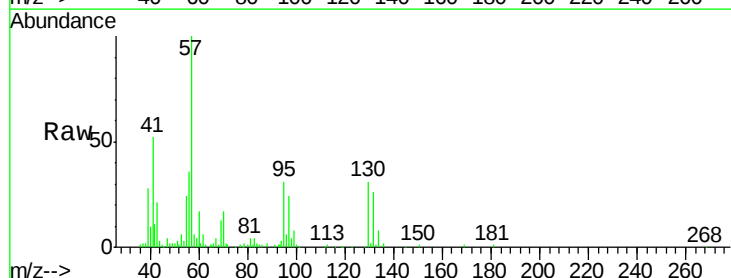
Instrument :
 MSVOA_L
 ClientSampleId :

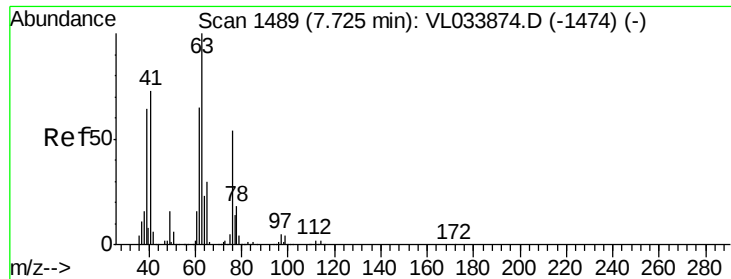
Tot Ion: 62 Resp: 10365
 Ion Ratio Lower Upper
 62 100
 98 11.5 4.0 6.0#



#38
 Trichloroethene
 Concen: 0.572 ppbv
 RT: 7.96 min Scan# 1561
 Delta R.T. 0.01 min
 Lab File: VL033911.D
 Acq: 14 Jun 2019 00:10

Tgt Ion: 130 Resp: 35355
 Ion Ratio Lower Upper
 130 100
 95 89.3 92.0 138.0#
 132 79.2 73.8 110.8
 97 70.9 57.2 85.8

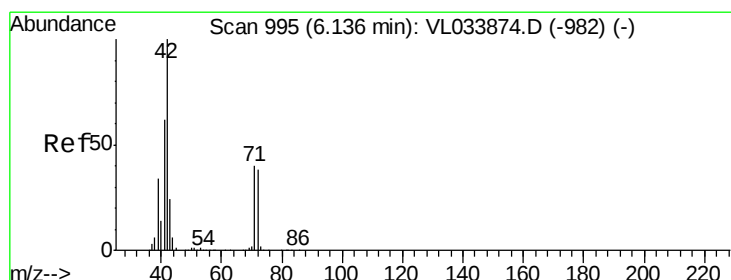
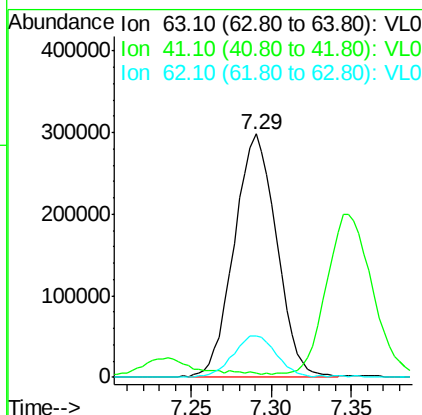
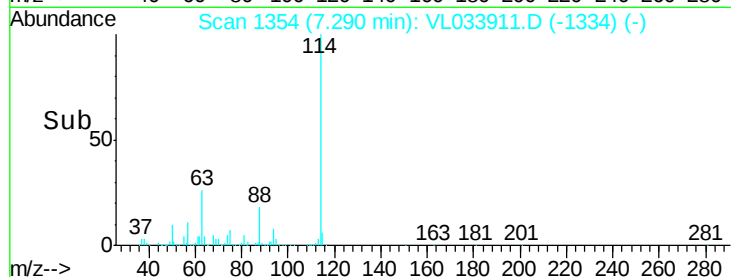
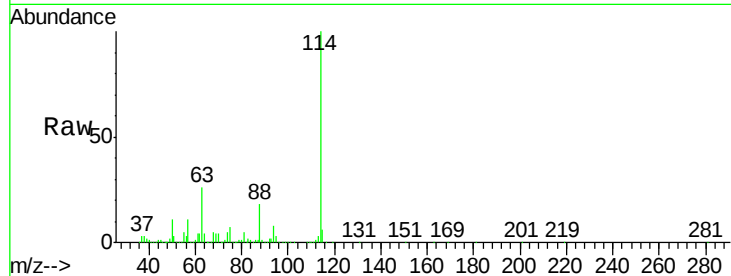




#39
 1,2-Dichloropropane
 Concen: 8.713 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.43 min
 Lab File: VL033911.D
 Acq: 14 Jun 2019 00:10

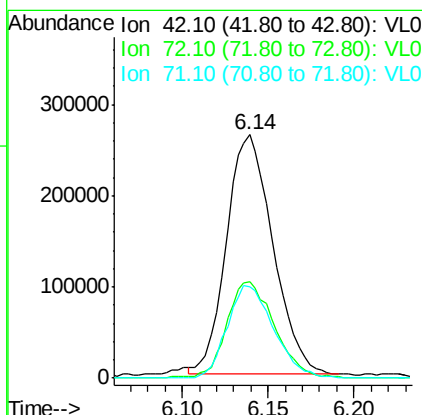
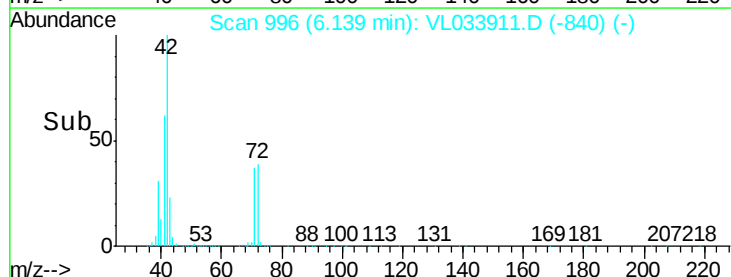
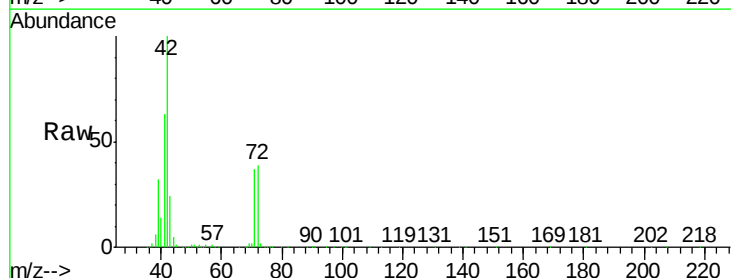
Instrument :
 MSVOA_L
 ClientSampleId :

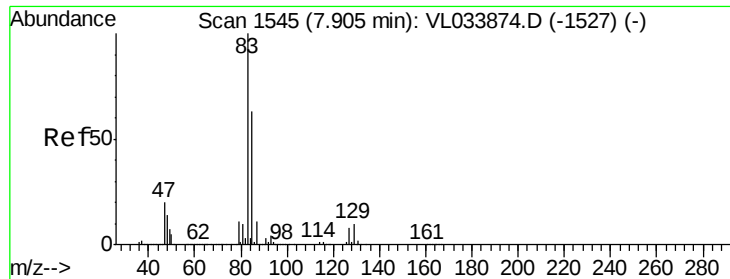
Tot Ion: 63 Resp: 533971
 Ion Ratio Lower Upper
 63 100
 41 0.0 58.7 88.1#
 62 16.8 51.9 77.9#



#41
 Tetrahydrofuran
 Concen: 8.334 ppbv
 RT: 6.14 min Scan# 996
 Delta R.T. 0.00 min
 Lab File: VL033911.D
 Acq: 14 Jun 2019 00:10

Tgt Ion: 42 Resp: 496020
 Ion Ratio Lower Upper
 42 100
 72 41.5 32.2 48.4
 71 38.9 31.7 47.5





#42

Bromodichloromethane

Concen: 0.130 ppbv

RT: 7.91 min Scan# 1546

Delta R.T. 0.00 min

Lab File: VL033911.D

Acq: 14 Jun 2019 00:10

Instrument :

MSVOA_L

ClientSampleId :

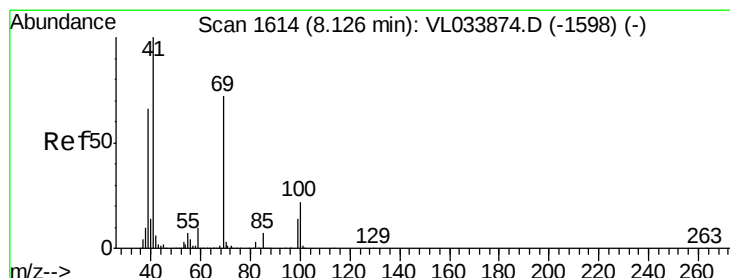
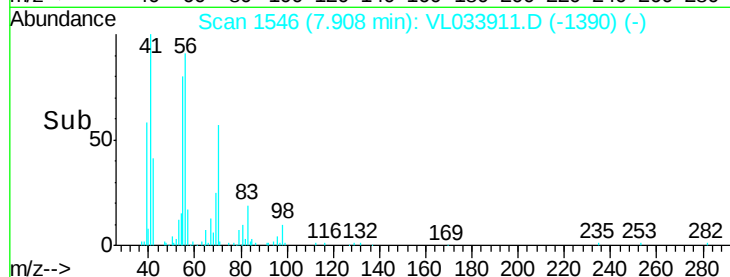
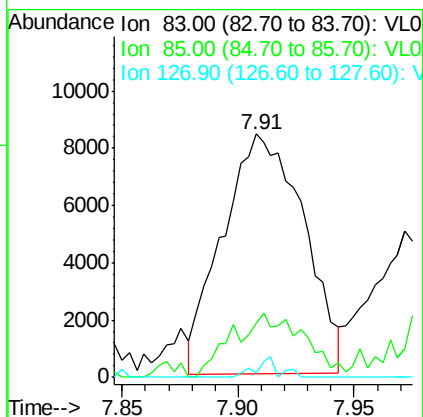
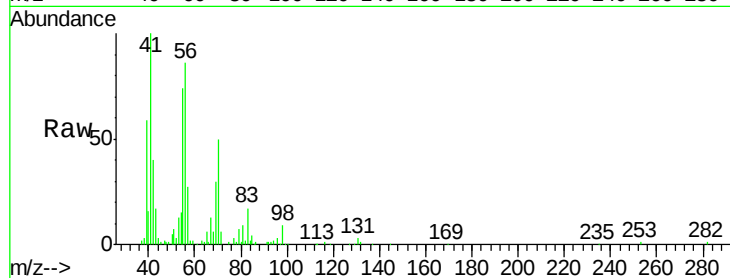
Tot Ion: 83 Resp: 20358

Ion Ratio Lower Upper

83 100

85 25.9 50.2 75.2#

127 2.3 6.5 9.7#



#43

Methyl Methacrylate

Concen: 0.040 ppbv

RT: 8.13 min Scan# 1614

Delta R.T. -0.00 min

Lab File: VL033911.D

Acq: 14 Jun 2019 00:10

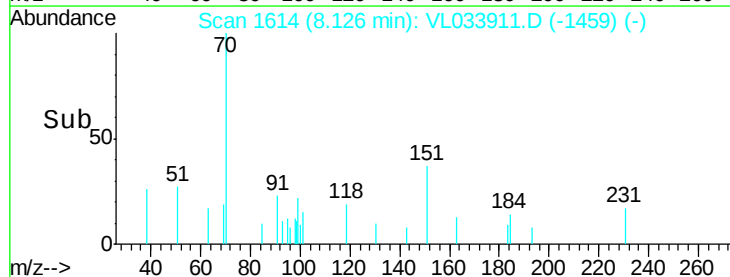
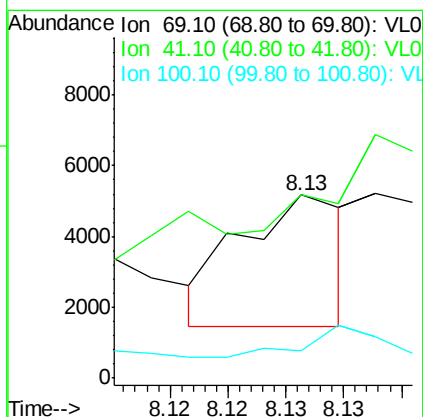
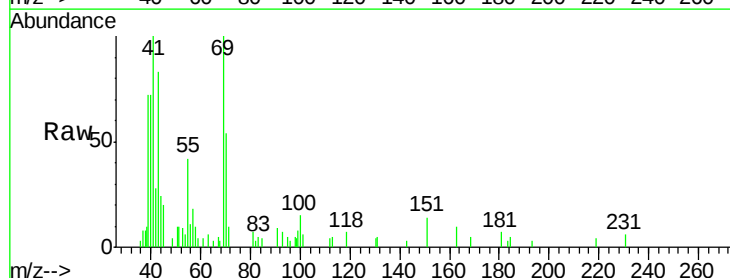
Tgt Ion: 69 Resp: 2352

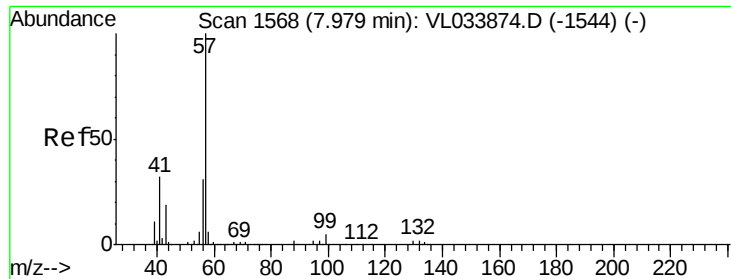
Ion Ratio Lower Upper

69 100

41 0.0 114.3 171.5#

100 130.9 24.8 37.2#





#44

2,2,4-Trimethylpentane

Concen: 1.459 ppbv

RT: 7.98 min Scan# 1569

Delta R.T. 0.00 min

Lab File: VL033911.D

Acq: 14 Jun 2019 00:10

Instrument :

MSVOA_L

ClientSampleId :

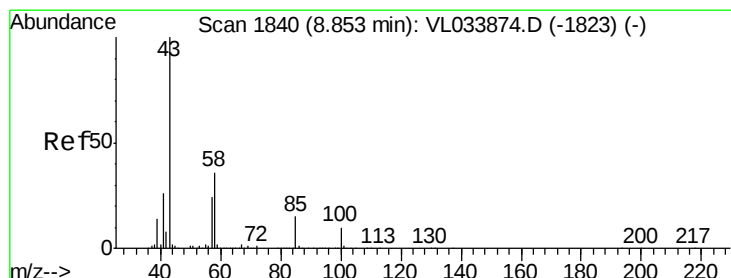
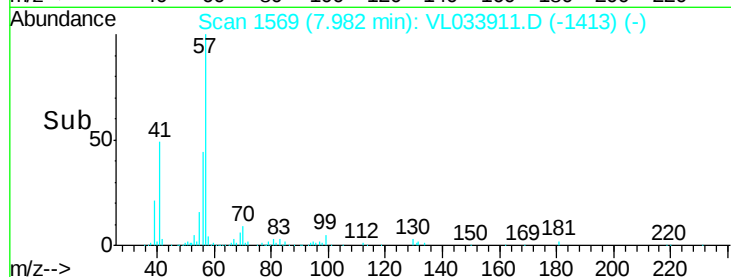
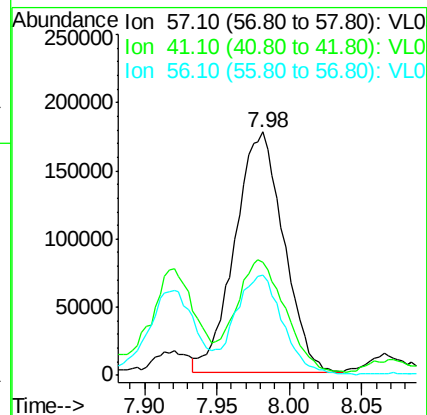
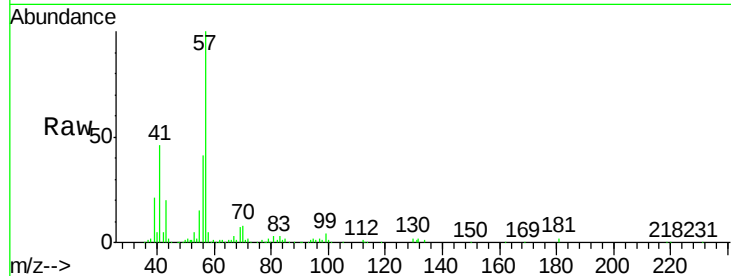
Tot Ion: 57 Resp: 411887

Ion Ratio Lower Upper

57 100

41 45.9 26.1 39.1#

56 38.5 24.6 36.8#



#50

4-Methyl-2-Pentanone

Concen: 1.140 ppbv

RT: 8.86 min Scan# 1842

Delta R.T. 0.01 min

Lab File: VL033911.D

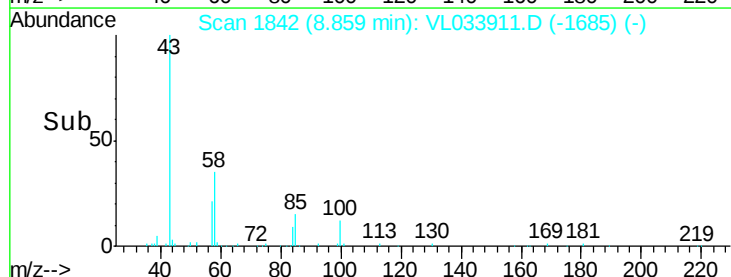
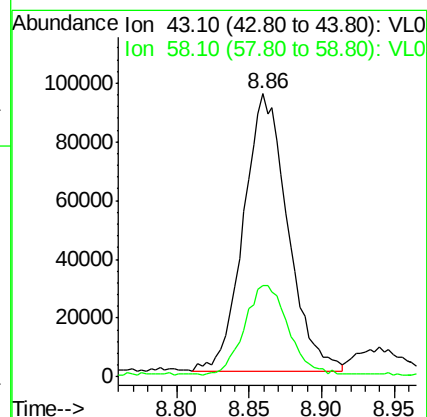
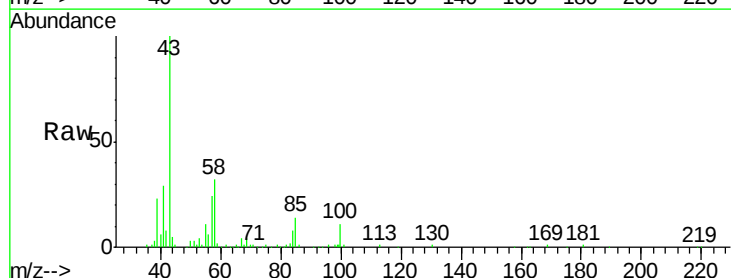
Acq: 14 Jun 2019 00:10

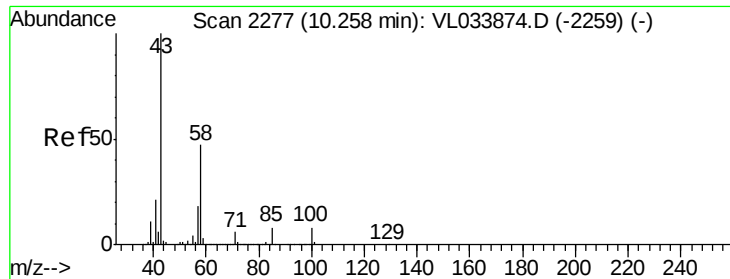
Tgt Ion: 43 Resp: 199416

Ion Ratio Lower Upper

43 100

58 32.1 28.6 42.8





#51

2-Hexanone

Concen: 5.698 ppbv

RT: 10.25 min Scan# 2276

Delta R.T. -0.00 min

Lab File: VL033911.D

Acq: 14 Jun 2019 00:10

Instrument :

MSVOA_L

ClientSampleId :

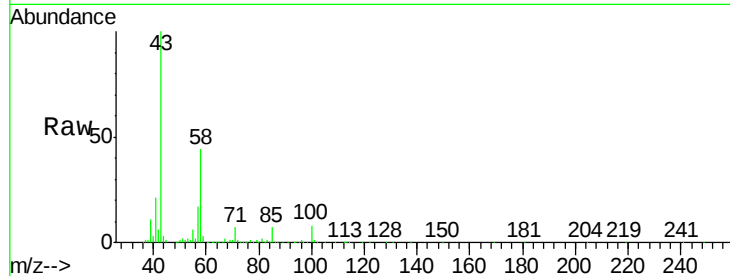
Tot Ion: 43 Resp: 778046

Ion Ratio Lower Upper

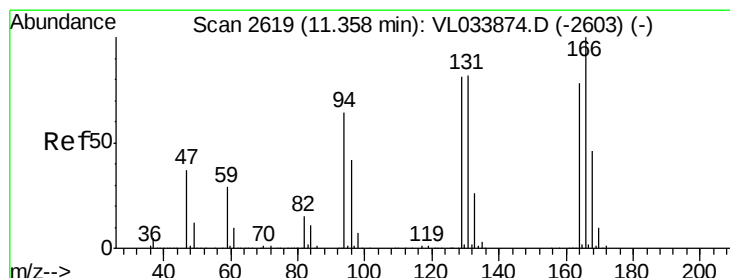
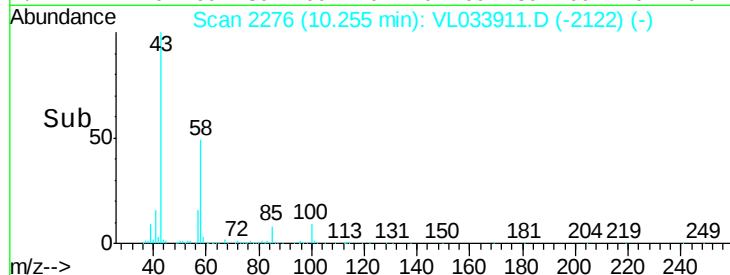
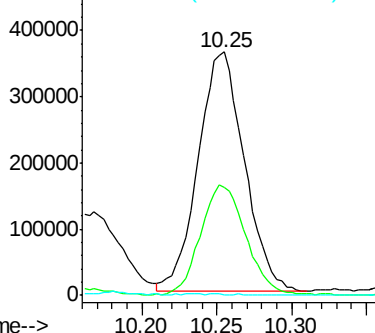
43 100

58 45.4 38.2 57.4

98 0.8 0.2 0.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 4.867 ppbv

RT: 11.36 min Scan# 2621

Delta R.T. 0.01 min

Lab File: VL033911.D

Acq: 14 Jun 2019 00:10

Tgt Ion:164 Resp: 271936

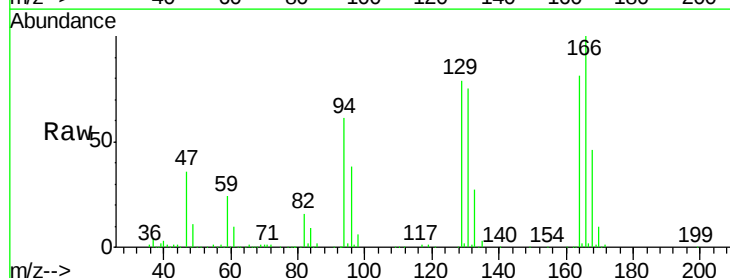
Ion Ratio Lower Upper

164 100

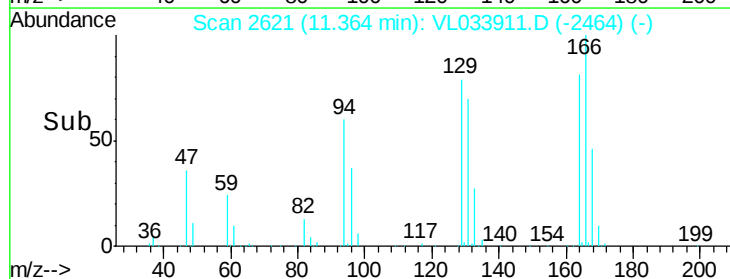
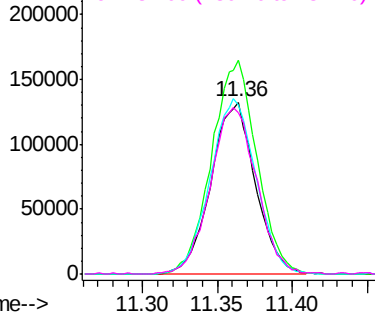
166 124.2 103.1 154.7

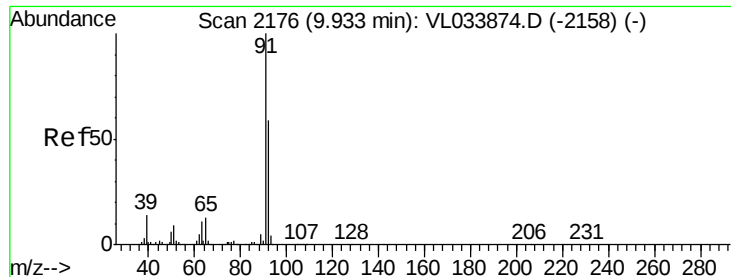
129 97.9 83.9 125.9

131 93.0 85.1 127.7



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 8.224 ppbv

RT: 9.94 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VL033911.D

Acq: 14 Jun 2019 00:10

Instrument :

MSVOA_L

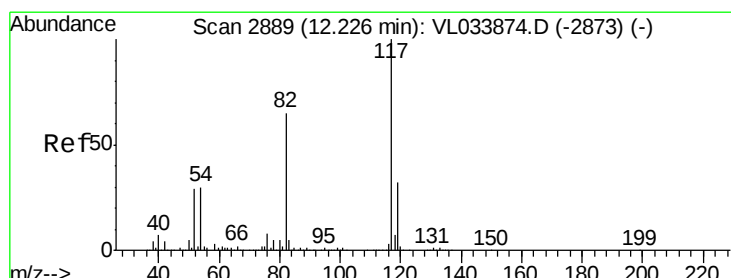
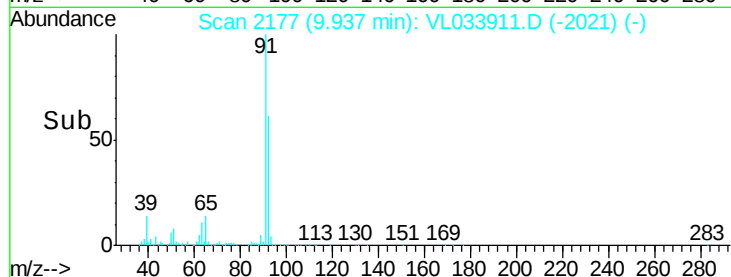
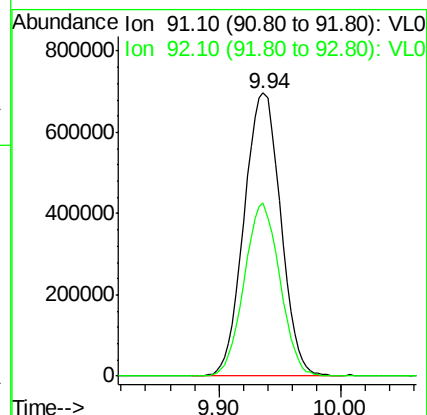
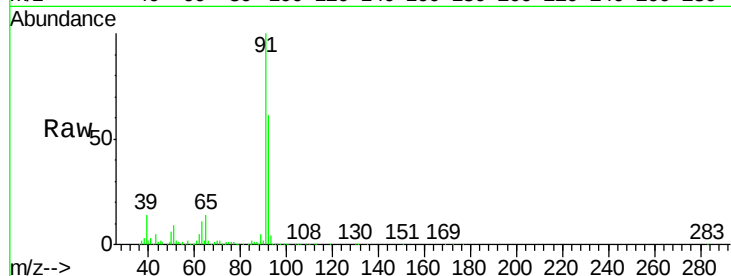
ClientSampleId :

Tot Ion: 91 Resp: 1445161

Ion Ratio Lower Upper

91 100

92 59.5 47.0 70.6



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2889

Delta R.T. -0.00 min

Lab File: VL033911.D

Acq: 14 Jun 2019 00:10

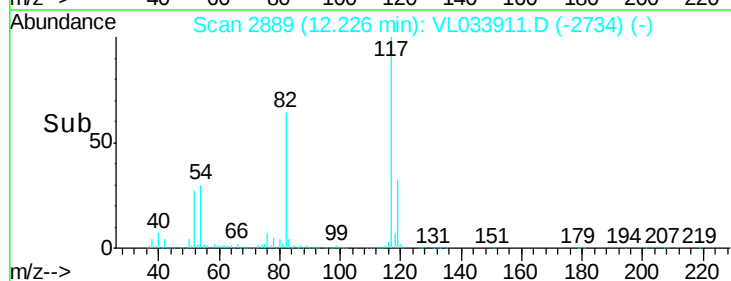
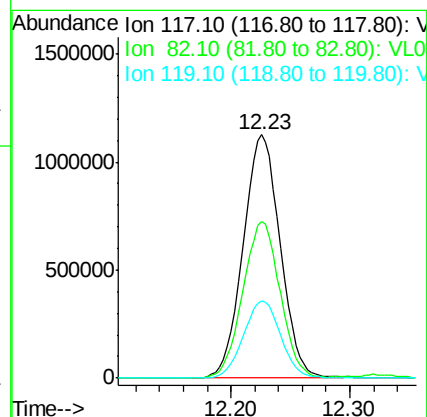
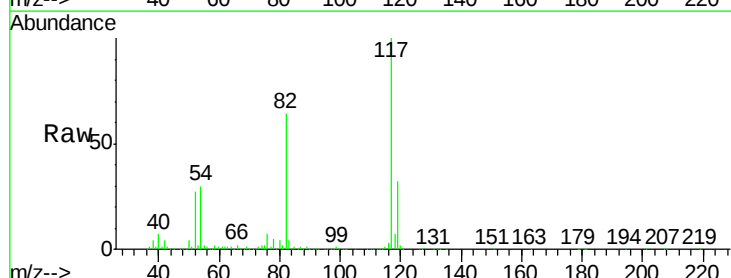
Tgt Ion: 117 Resp: 2425864

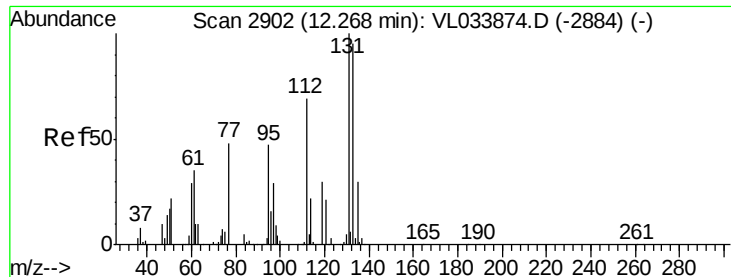
Ion Ratio Lower Upper

117 100

82 64.8 50.2 75.2

119 32.2 24.8 37.2

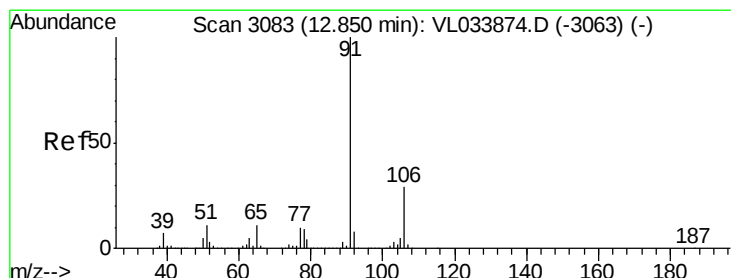
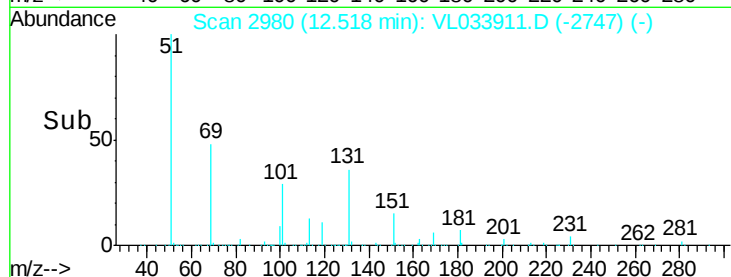
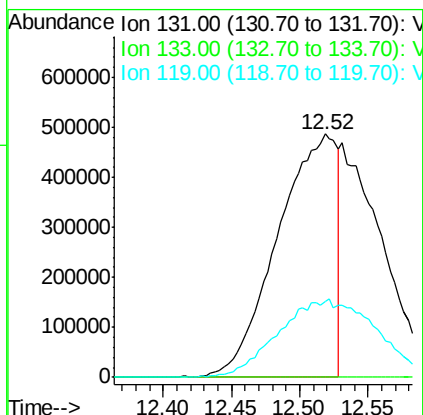
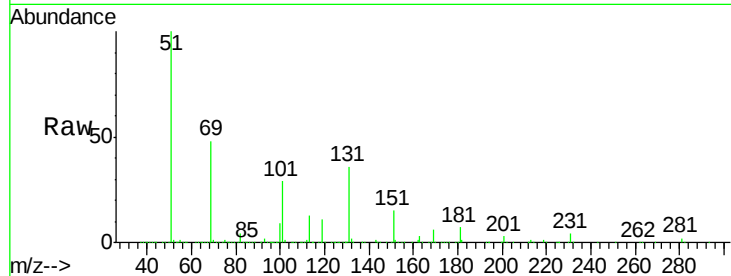




#56
 1,1,1,2-Tetrachloroethane
 Concen: 13.725 ppbv
 RT: 12.52 min Scan# 2980
 Delta R.T. 0.25 min
 Lab File: VL033911.D
 Acq: 14 Jun 2019 00:10

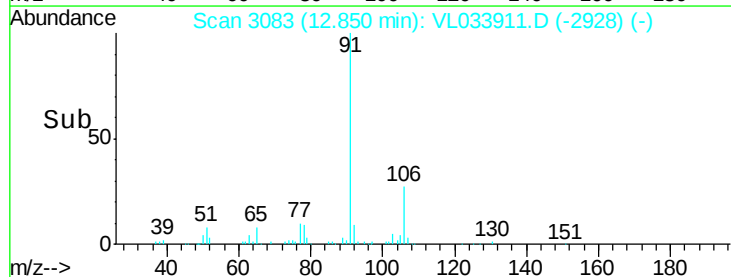
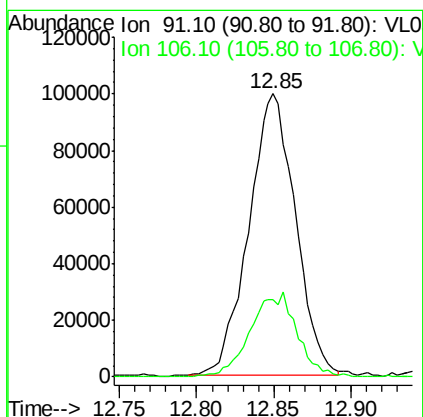
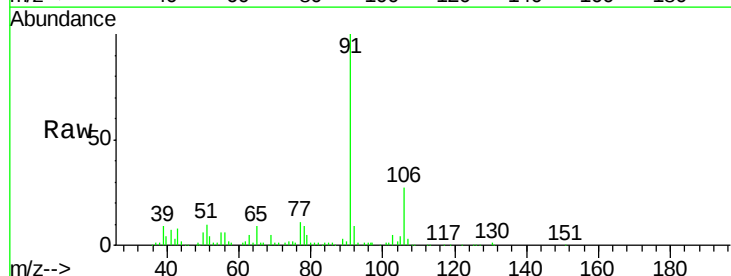
Instrument :
 MSVOA_L
 ClientSampleId :

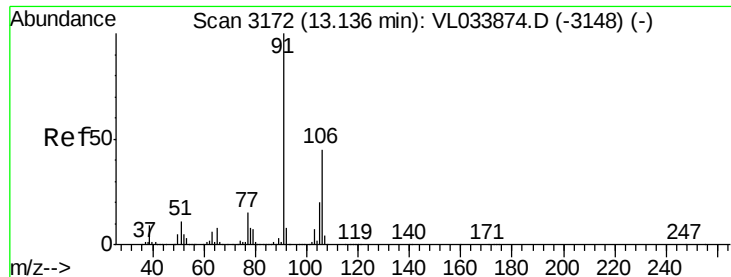
Tot Ion:131 Resp: 1454509
 Ion Ratio Lower Upper
 131 100
 133 0.0 76.5 114.7#
 119 53.5 42.6 64.0



#58
 Ethyl Benzene
 Concen: 0.765 ppbv
 RT: 12.85 min Scan# 3083
 Delta R.T. -0.00 min
 Lab File: VL033911.D
 Acq: 14 Jun 2019 00:10

Tgt Ion: 91 Resp: 209187
 Ion Ratio Lower Upper
 91 100
 106 27.1 23.0 34.6

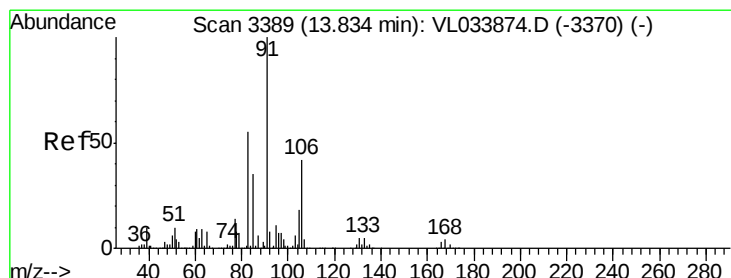
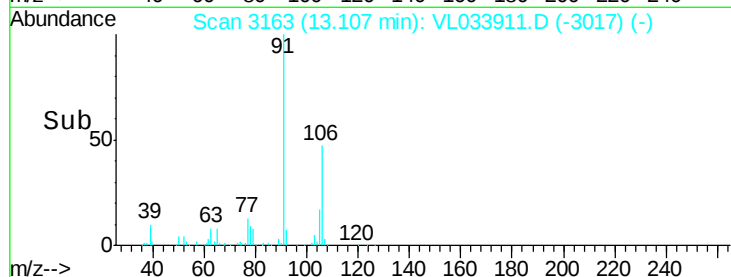
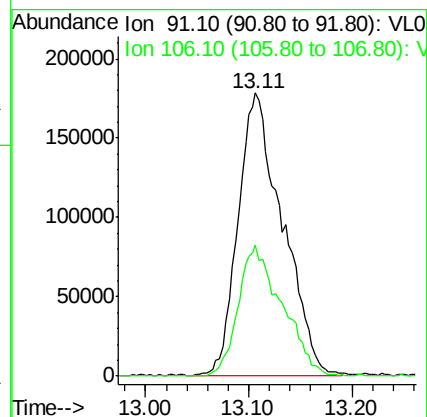
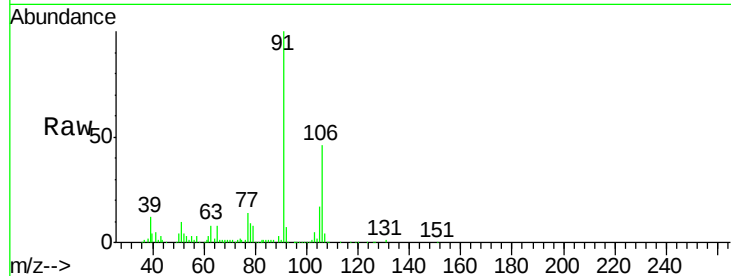




#59
m/p-Xylene
Concen: 2.135 ppbv
RT: 13.11 min Scan# 3163
Delta R.T. -0.03 min
Lab File: VL033911.D
Acq: 14 Jun 2019 00:10

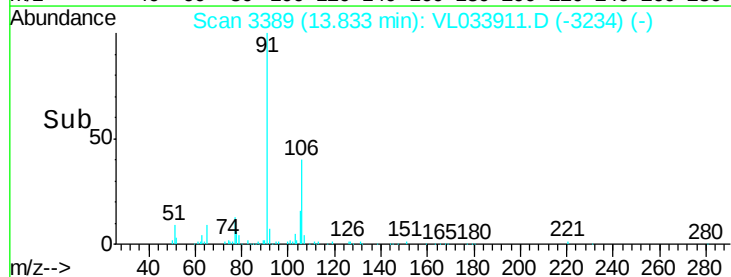
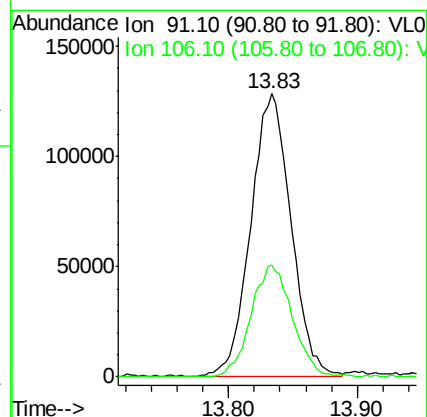
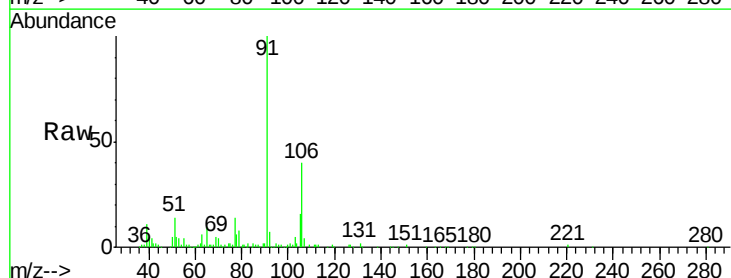
Instrument :
MSVOA_L
ClientSampled :

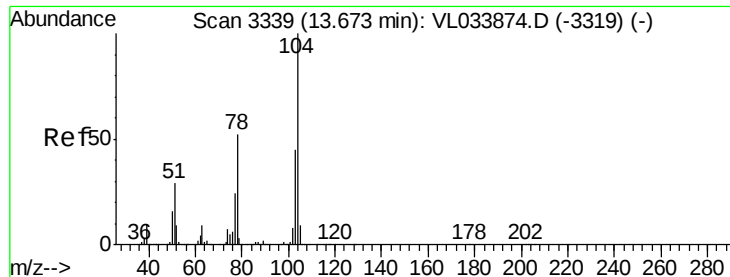
Tot Ion: 91 Resp: 531044
Ion Ratio Lower Upper
91 100
106 46.0 35.8 53.8



#60
o-Xylene
Concen: 1.080 ppbv
RT: 13.83 min Scan# 3389
Delta R.T. -0.00 min
Lab File: VL033911.D
Acq: 14 Jun 2019 00:10

Tgt Ion: 91 Resp: 277438
Ion Ratio Lower Upper
91 100
106 41.0 21.7 65.1





#61

Stvrene

Concen: 0.799 ppbv

RT: 13.67 min Scan# 3338

Delta R.T. -0.00 min

Lab File: VL033911.D

Acq: 14 Jun 2019 00:10

Instrument :

MSVOA_L

ClientSampleId :

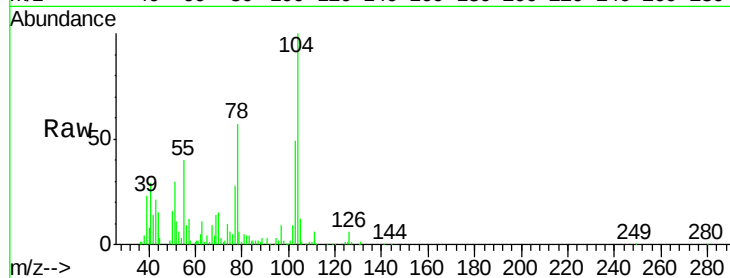
Tot Ion:104 Resp: 132720

Ion Ratio Lower Upper

104 100

78 56.8 43.4 65.0

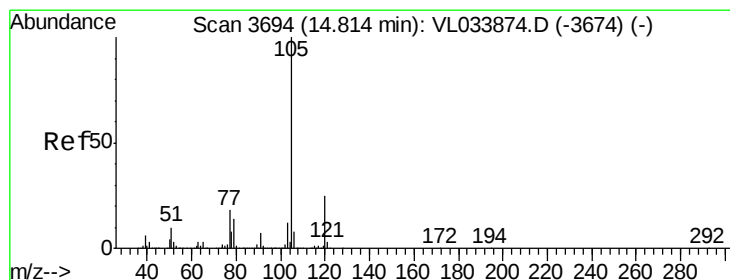
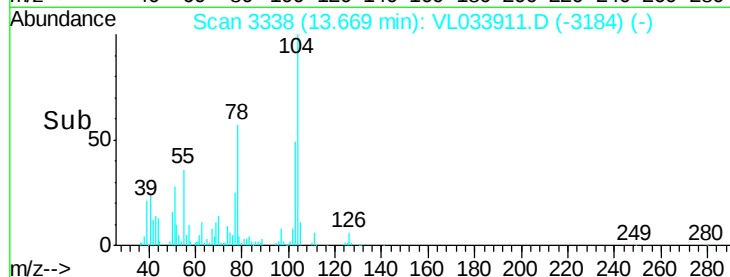
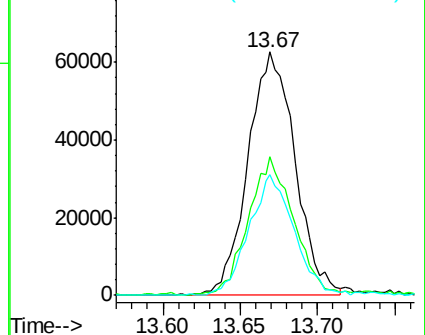
103 47.5 37.6 56.4



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.288 ppbv

RT: 14.81 min Scan# 3693

Delta R.T. -0.00 min

Lab File: VL033911.D

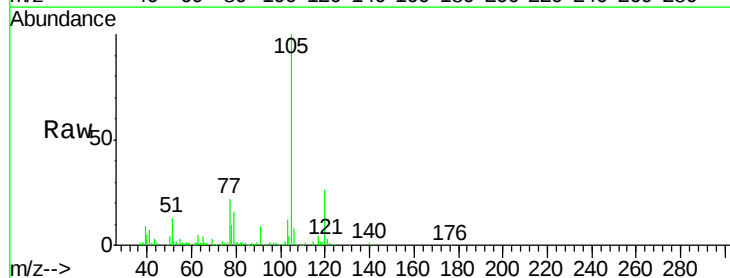
Acq: 14 Jun 2019 00:10

Tgt Ion:105 Resp: 99624

Ion Ratio Lower Upper

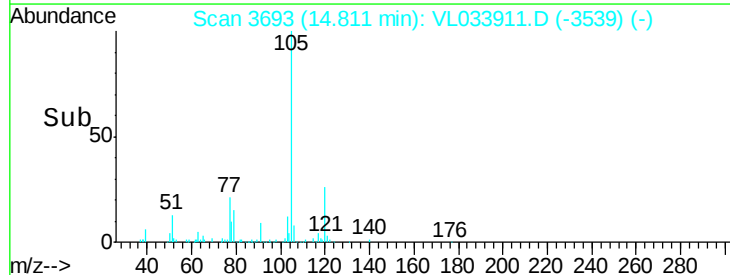
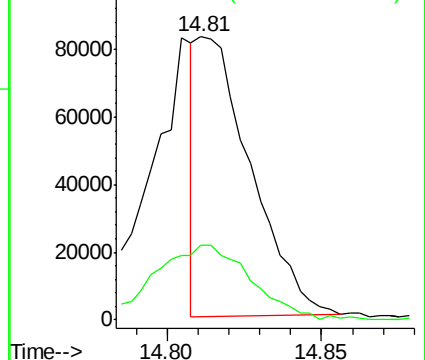
105 100

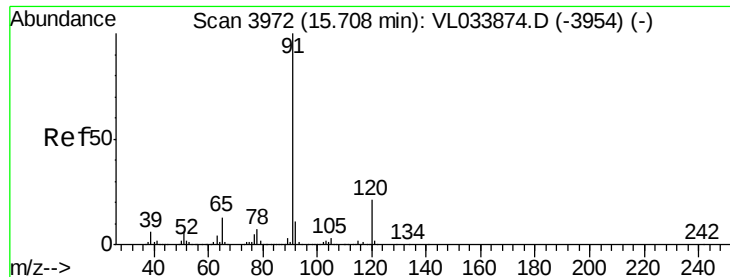
120 49.3 20.3 30.5#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

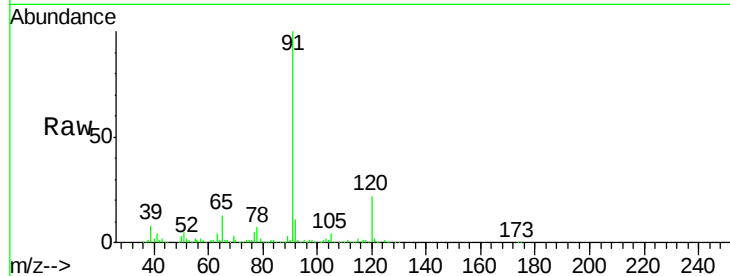




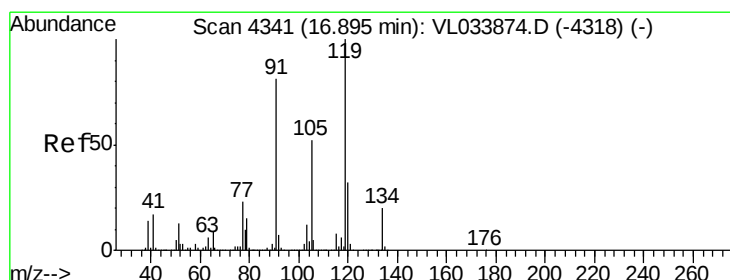
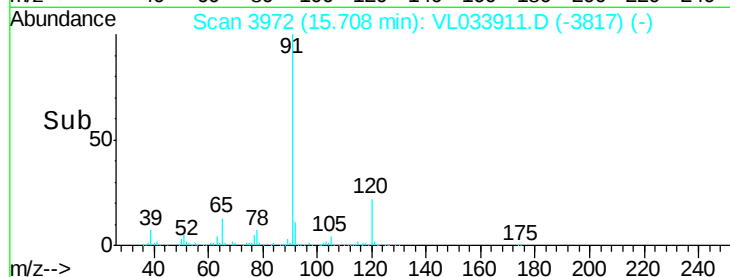
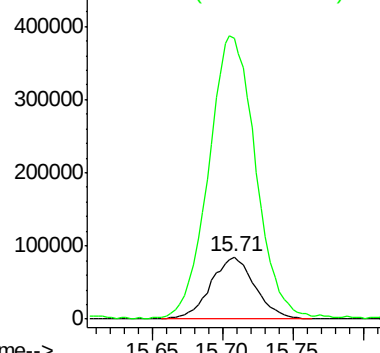
#64
n-propylbenzene
Concen: 2.103 ppbv
RT: 15.71 min Scan# 3972
Delta R.T. -0.00 min
Lab File: VL033911.D
Acq: 14 Jun 2019 00:10

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:120 Resp: 186370
Ion Ratio Lower Upper
120 100
91 487.5 387.0 580.6

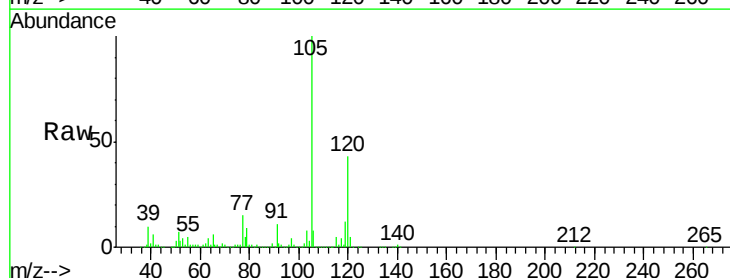


Abundance Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0

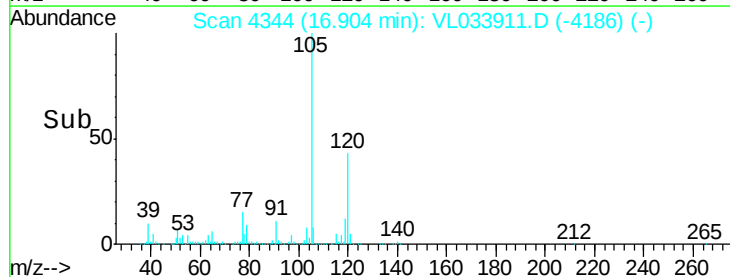
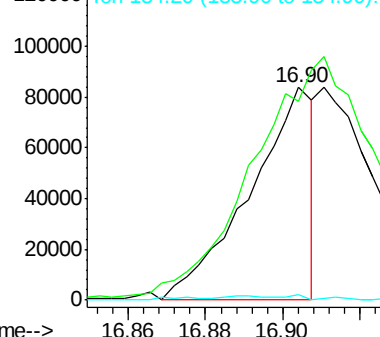


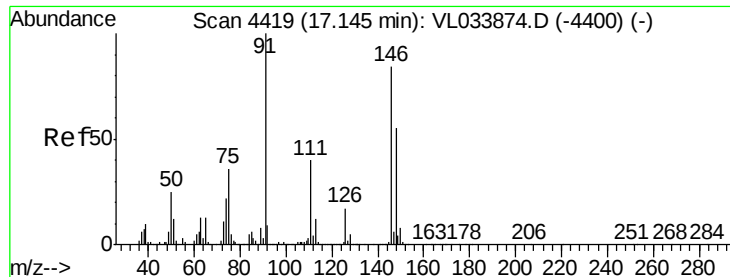
#65
tert-Butylbenzene
Concen: 0.298 ppbv
RT: 16.90 min Scan# 4344
Delta R.T. 0.01 min
Lab File: VL033911.D
Acq: 14 Jun 2019 00:10

Tgt Ion:119 Resp: 95509
Ion Ratio Lower Upper
119 100
91 0.0 66.6 100.0#
134 3.9 15.5 23.3#



Abundance Ion 119.20 (118.90 to 119.90): V
Ion 91.10 (90.80 to 91.80): VL0
Ion 134.20 (133.90 to 134.90): V





#66

Benzyl Chloride

Concen: 0.062 ppbv

RT: 17.36 min Scan# 4485

Delta R.T. 0.21 min

Lab File: VL033911.D

Acq: 14 Jun 2019 00:10

Instrument :

MSVOA_L

ClientSampleId :

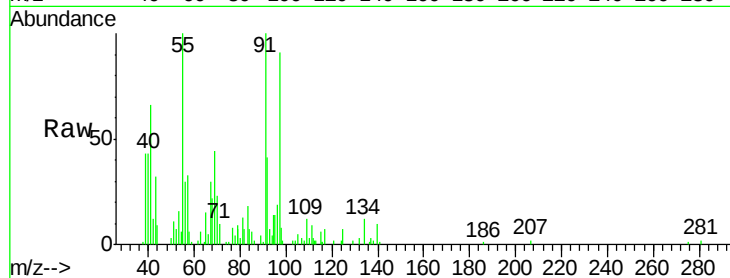
Tot Ion: 91 Resp: 10029

Ion Ratio Lower Upper

91 100

126 4.1 13.8 20.6#

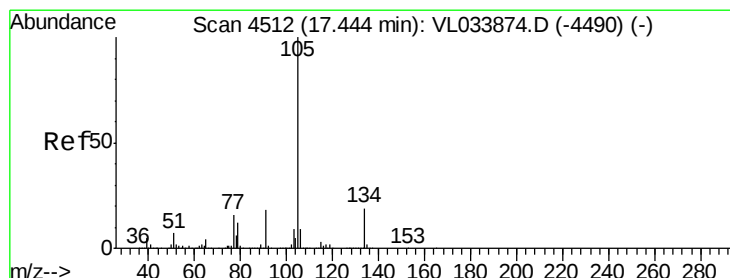
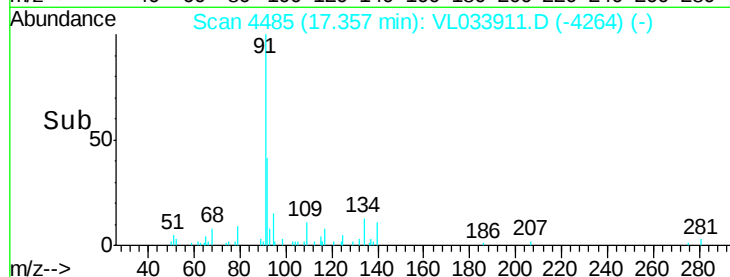
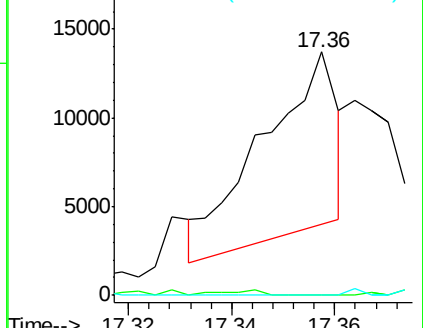
128 2.1 4.4 6.6#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V



#67

sec-Butylbenzene

Concen: 0.103 ppbv

RT: 17.44 min Scan# 4510

Delta R.T. -0.01 min

Lab File: VL033911.D

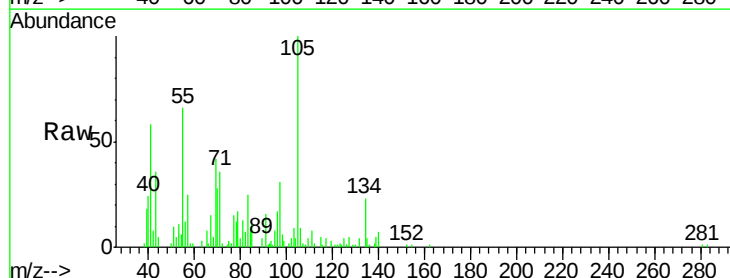
Acq: 14 Jun 2019 00:10

Tgt Ion: 105 Resp: 46434

Ion Ratio Lower Upper

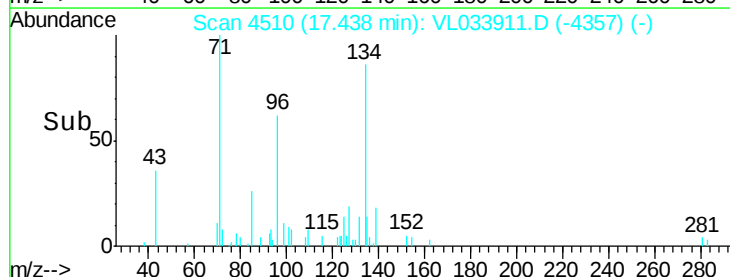
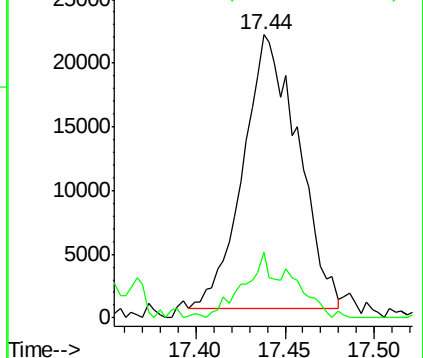
105 100

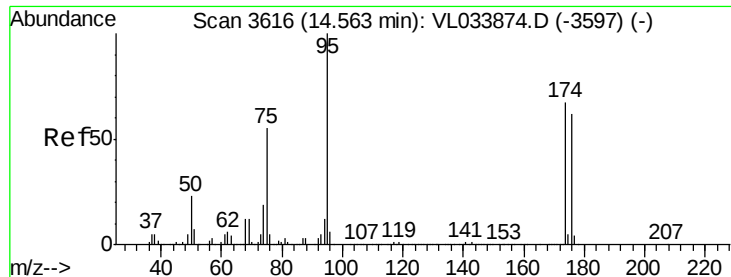
134 20.8 14.6 22.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

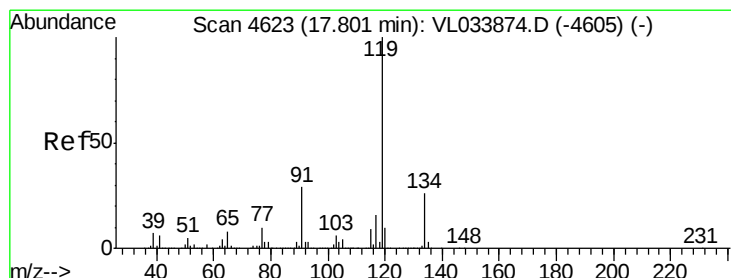
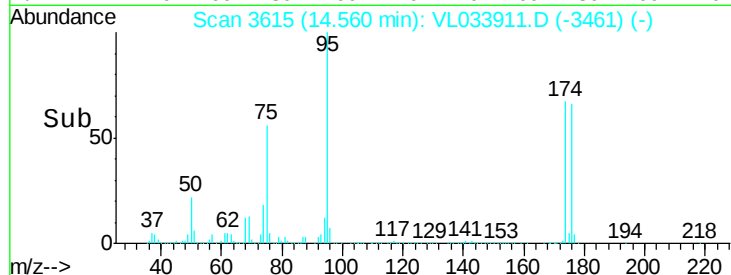
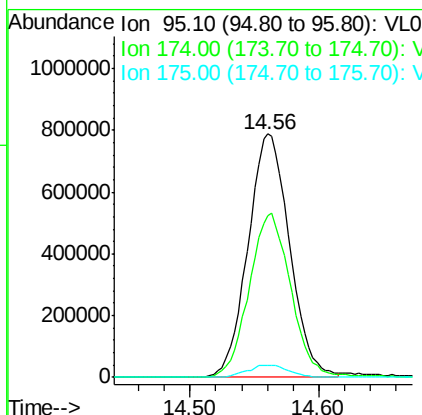
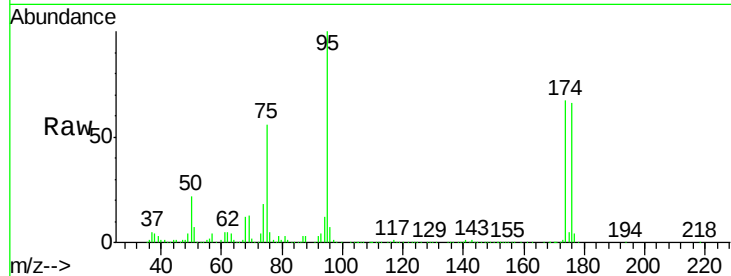




#68
 1-Bromo-4-Fluorobenzene
 Concen: 8.872 ppbv
 RT: 14.56 min Scan# 3615
 Delta R.T. -0.00 min
 Lab File: VL033911.D
 Acq: 14 Jun 2019 00:10

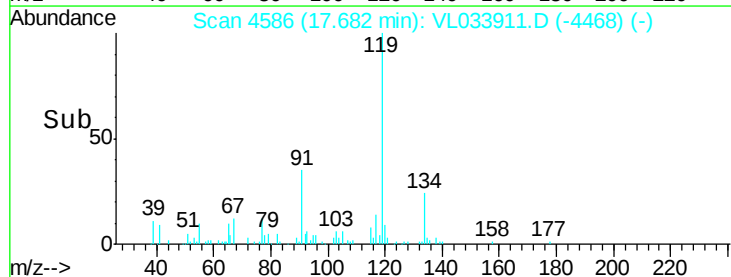
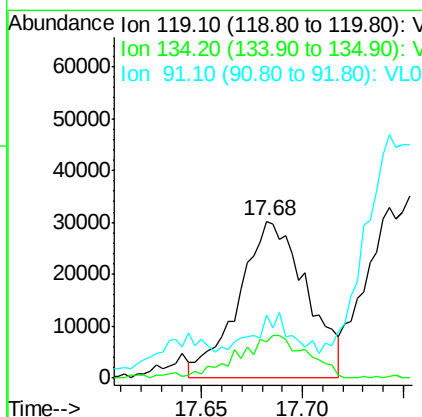
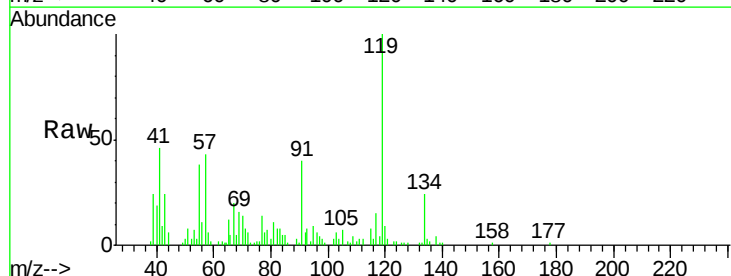
Instrument :
 MSVOA_L
 ClientSampleId :

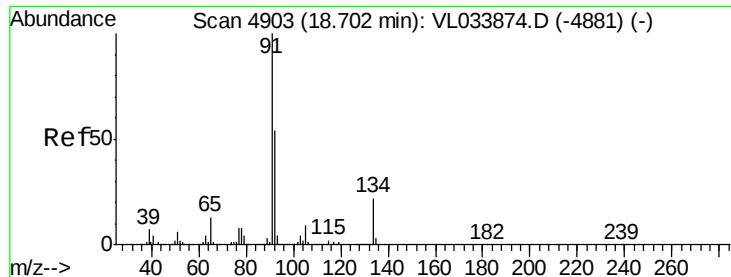
Tot Ion: 95 Resp: 1767817
 Ion Ratio Lower Upper
 95 100
 174 68.2 54.0 81.0
 175 5.0 3.8 5.8



#69
 p-Isopropyltoluene
 Concen: 0.188 ppbv
 RT: 17.68 min Scan# 4586
 Delta R.T. -0.12 min
 Lab File: VL033911.D
 Acq: 14 Jun 2019 00:10

Tgt Ion: 119 Resp: 70263
 Ion Ratio Lower Upper
 119 100
 134 29.2 20.3 30.5
 91 35.5 23.8 35.6





#70

n-Butylbenzene

Concen: 0.090 ppbv

RT: 18.70 min Scan# 4904

Delta R.T. 0.00 min

Lab File: VL033911.D

Acq: 14 Jun 2019 00:10

Instrument :

MSVOA_L

ClientSampled :

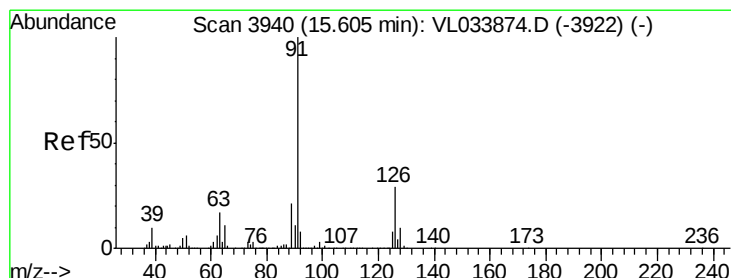
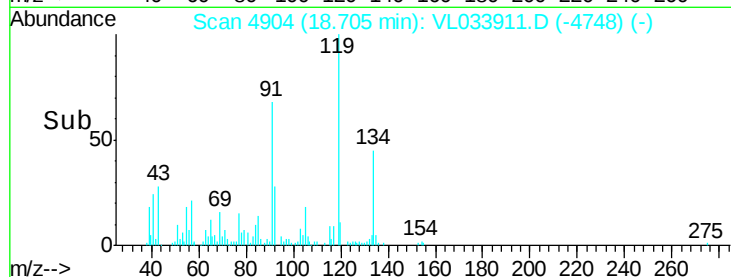
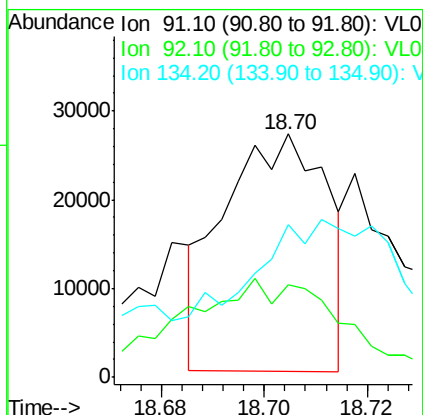
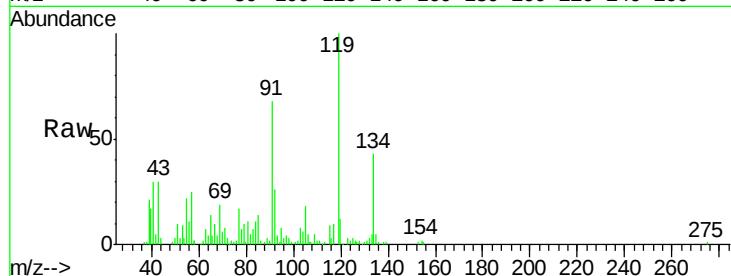
Tot Ion: 91 Resp: 36996

Ion Ratio Lower Upper

91 100

92 72.8 42.5 63.7#

134 0.0 17.8 26.6#



#71

2-Chlorotoluene

Concen: 0.211 ppbv

RT: 15.46 min Scan# 3895

Delta R.T. -0.14 min

Lab File: VL033911.D

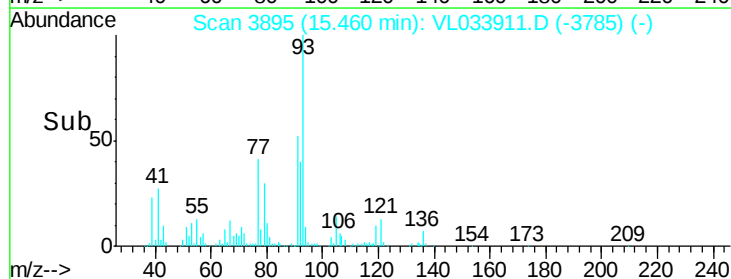
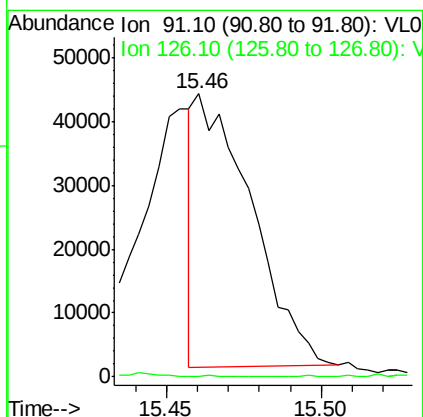
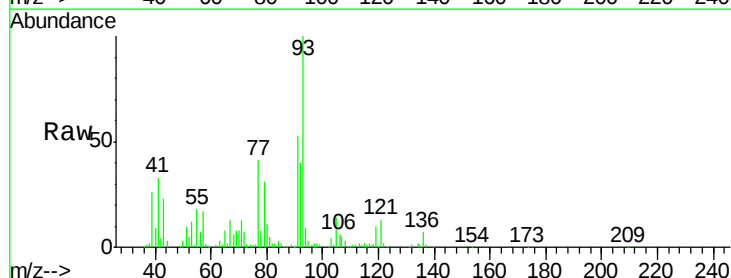
Acq: 14 Jun 2019 00:10

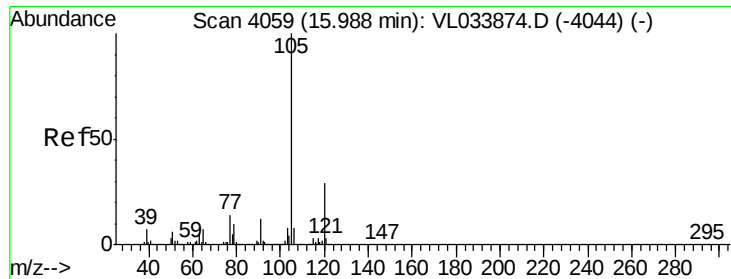
Tgt Ion: 91 Resp: 53679

Ion Ratio Lower Upper

91 100

126 4.9 12.0 48.2#





#72

4-Ethyltoluene

Concen: 3.639 ppbv

RT: 15.98 min Scan# 4058

Delta R.T. -0.00 min

Lab File: VL033911.D

Acq: 14 Jun 2019 00:10

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:105 Resp: 1063429

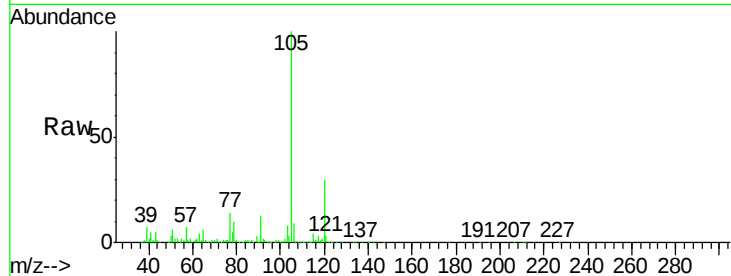
Ion	Ratio	Lower	Upper
105	100		
120	28.0	23.5	35.3
91	12.8	10.4	15.6
77	14.4	11.7	17.5

105 100

120 28.0 23.5 35.3

91 12.8 10.4 15.6

77 14.4 11.7 17.5



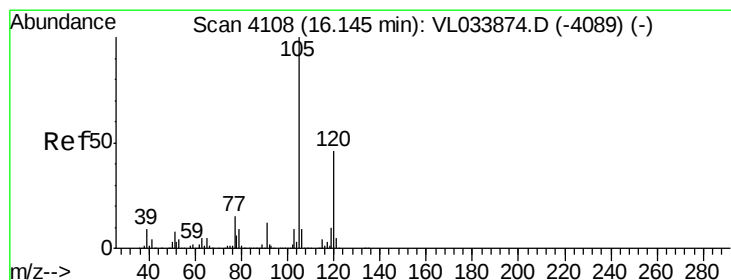
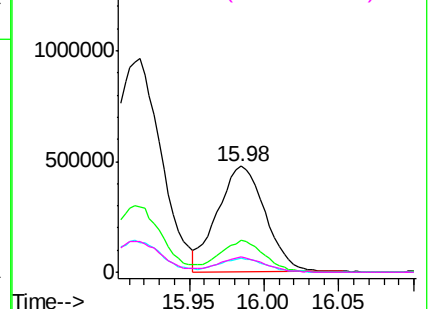
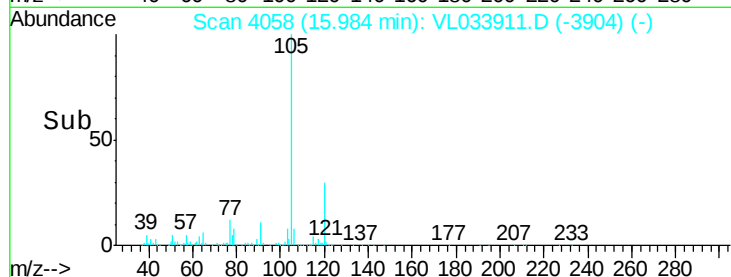
Abundance Ion 105.10 (104.80 to 105.80): V

1500000

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 2.736 ppbv

RT: 16.15 min Scan# 4108

Delta R.T. -0.00 min

Lab File: VL033911.D

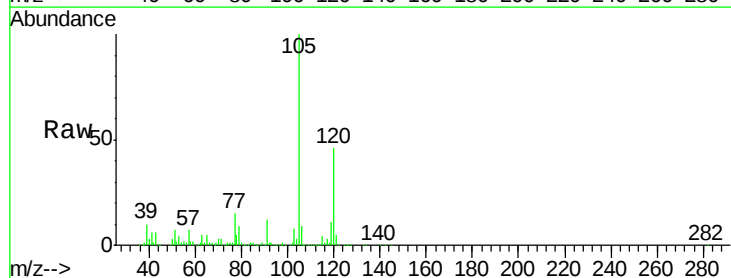
Acq: 14 Jun 2019 00:10

Tgt Ion:105 Resp: 787624

Ion	Ratio	Lower	Upper
105	100		
120	45.5	37.1	55.7

105 100

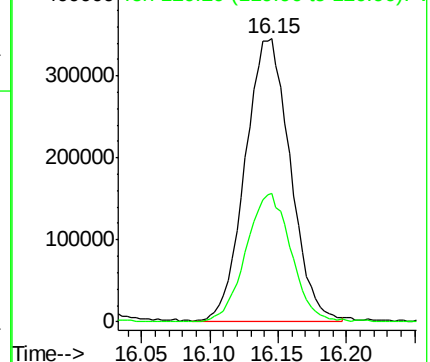
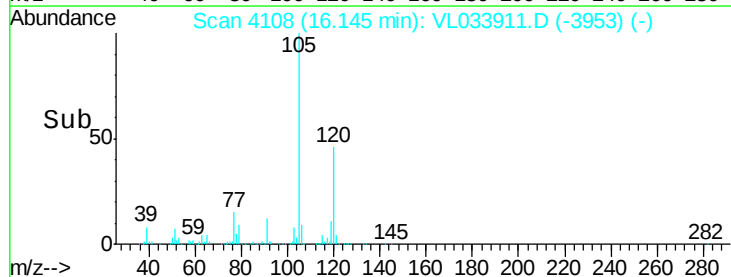
120 45.5 37.1 55.7

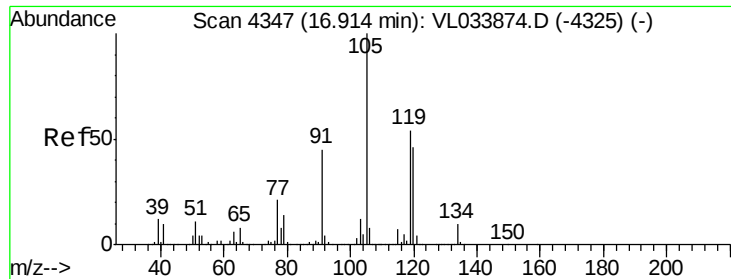


Abundance Ion 105.10 (104.80 to 105.80): V

400000

Ion 120.20 (119.90 to 120.90): V

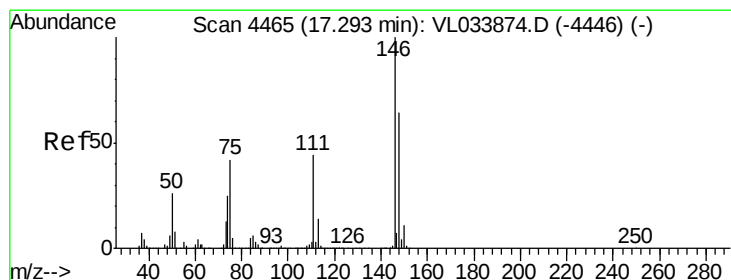
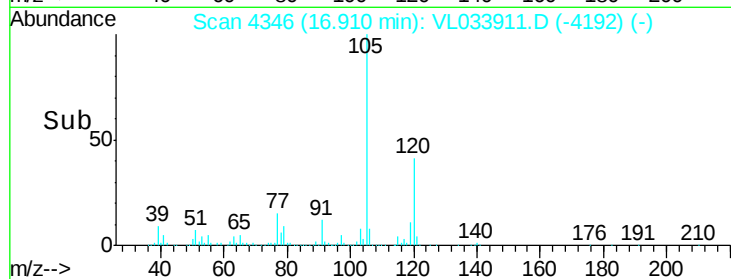
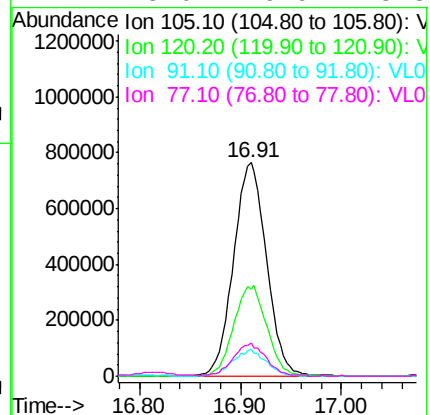
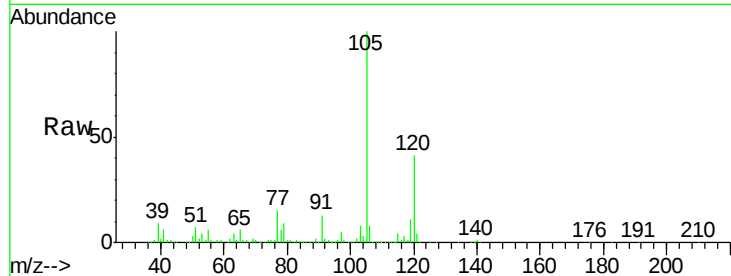




#74
 1,2,4-Trimethylbenzene
 Concen: 5.226 ppbv
 RT: 16.91 min Scan# 4346
 Delta R.T. -0.00 min
 Lab File: VL033911.D
 Acq: 14 Jun 2019 00:10

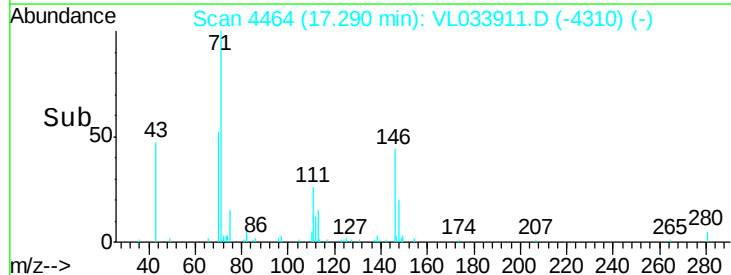
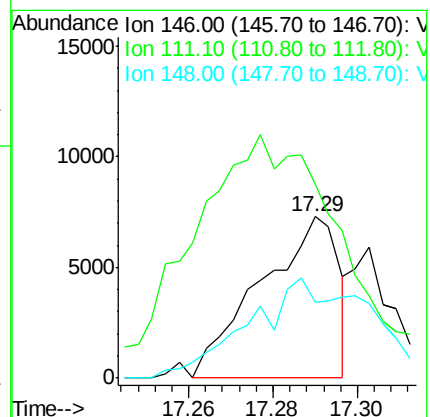
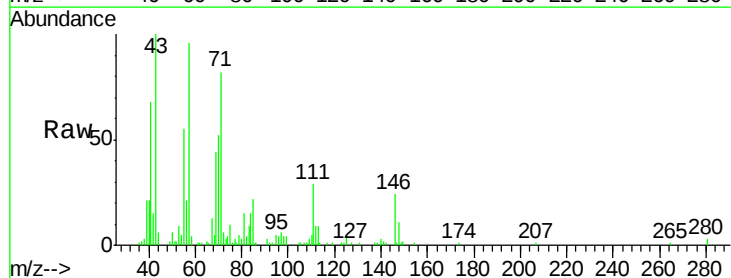
Instrument :
 MSVOA_L
 ClientSampled :

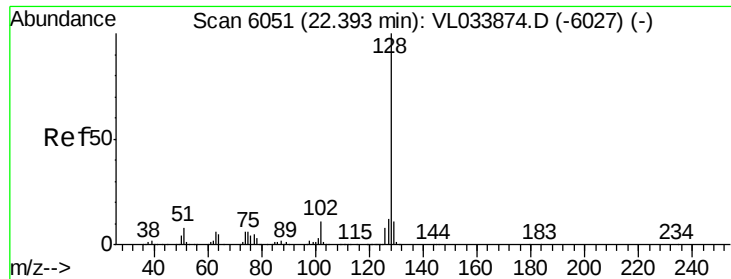
Tot Ion:105 Resp: 1733866
 Ion Ratio Lower Upper
 105 100
 120 40.6 36.7 55.1
 91 12.4 35.8 53.8#
 77 15.0 16.9 25.3#



#76
 1,4-Dichlorobenzene
 Concen: 0.049 ppbv
 RT: 17.29 min Scan# 4464
 Delta R.T. -0.00 min
 Lab File: VL033911.D
 Acq: 14 Jun 2019 00:10

Tgt Ion:146 Resp: 9409
 Ion Ratio Lower Upper
 146 100
 111 293.7 22.1 66.5#
 148 100.2 32.4 97.0#





#79

Naphthalene

Concen: 0.069 ppbv

RT: 22.39 min Scan# 6050

Delta R.T. -0.00 min

Lab File: VL033911.D

Acq: 14 Jun 2019 00:10

Instrument :

MSVOA_L

ClientSampleId :

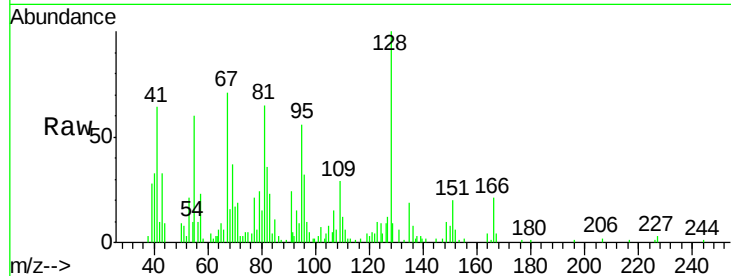
Tot Ion:128 Resp: 18348

Ion Ratio Lower Upper

128 100

127 0.0 9.7 14.5#

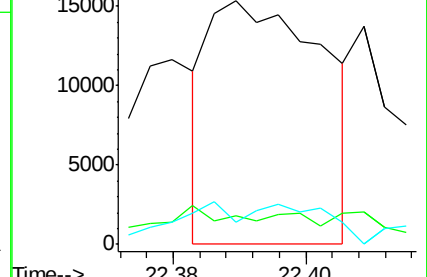
129 0.2 8.6 12.8#



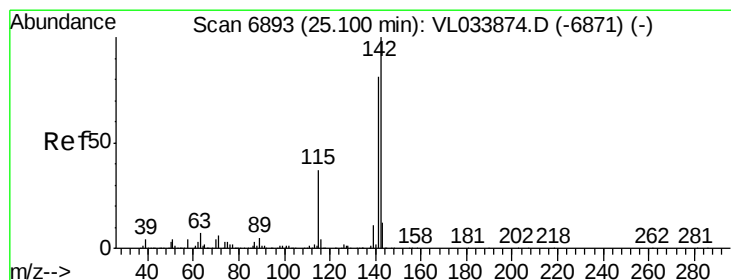
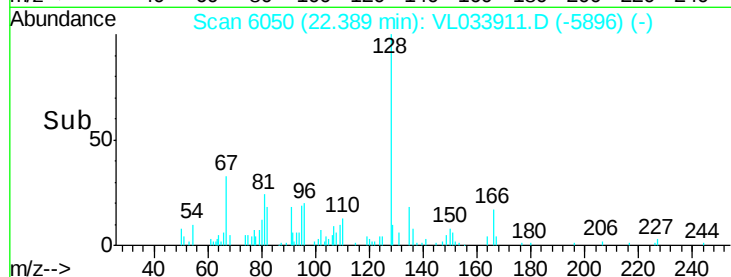
Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



Time-->



#80

Naphthalene, 2-methyl-

Concen: 0.073 ppbv

RT: 25.10 min Scan# 6894

Delta R.T. 0.00 min

Lab File: VL033911.D

Acq: 14 Jun 2019 00:10

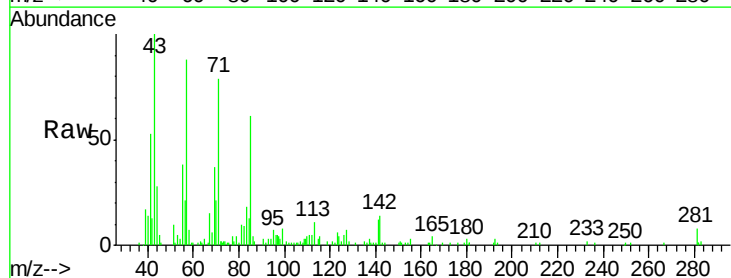
Tgt Ion:142 Resp: 7752

Ion Ratio Lower Upper

142 100

141 93.5 65.7 98.5

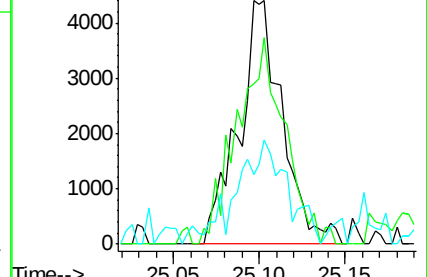
115 54.9 28.9 43.3#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V



Time-->

