

Data File : VL033196.D
Acq On : 13 Feb 2019 21:04
Operator : SY/AP
Sample : K1408-02DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AB-SSDL

Quant Time: Feb 14 04:28:58 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 06 09:13:11 2019
QLast Update : Wed Feb 06 09:13:11 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	809515	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1877637	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.24	117	1923750	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1534892	10.36	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.60%

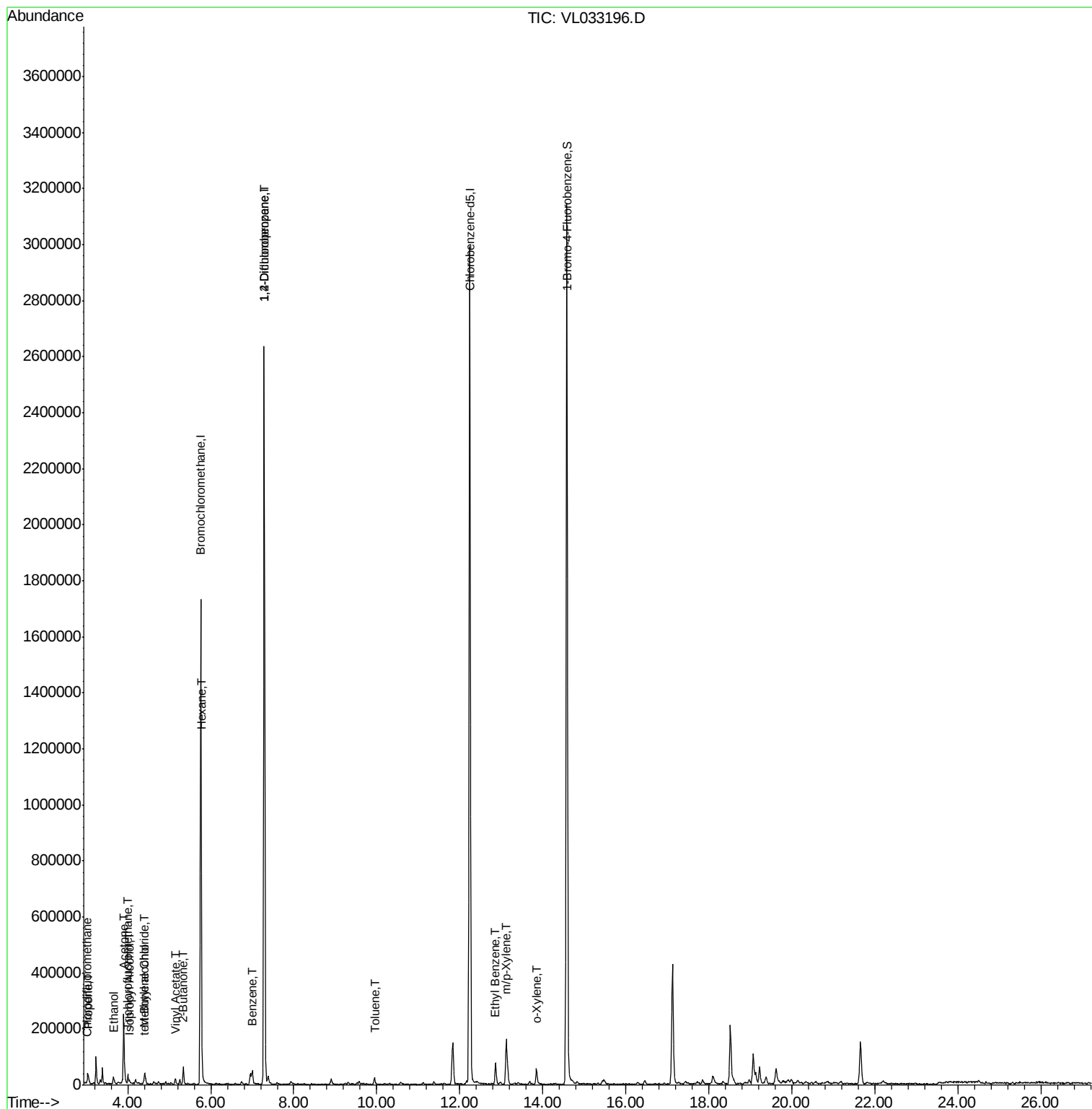
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.01	51	7738	0.079	ppbv #	85
9) Propene	3.04	41	5423	0.115	ppbv #	61
11) Trichlorofluoromethane	4.00	101	18909	0.151	ppbv	85
13) Ethanol	3.66	45	24713	1.574	ppbv	98
15) Acetone	3.90	43	241141	2.644	ppbv	97
17) tert-Butyl alcohol	4.38	59	1739	0.100	ppbv #	74
19) Isopropyl Alcohol	4.03	45	4970	0.080	ppbv #	95
20) Methylene Chloride	4.41	84	8844	0.244	ppbv #	78
23) Vinyl Acetate	5.15	43	13756	0.087	ppbv #	95
26) Hexane	5.78	57	5775	0.060	ppbv #	47
34) 2-Butanone	5.34	43	70877	0.595	ppbv	99
36) Benzene	7.00	78	16270	0.085	ppbv #	90
39) 1,2-Dichloropropane	7.29	63	499007	6.640	ppbv #	25
53) Toluene	9.94	91	18865	0.084	ppbv	95
58) Ethyl Benzene	12.87	91	62742	0.202	ppbv	94
59) m/p-Xylene	13.12	91	157622	0.607	ppbv #	100
60) o-Xylene	13.85	91	40594	0.161	ppbv	97

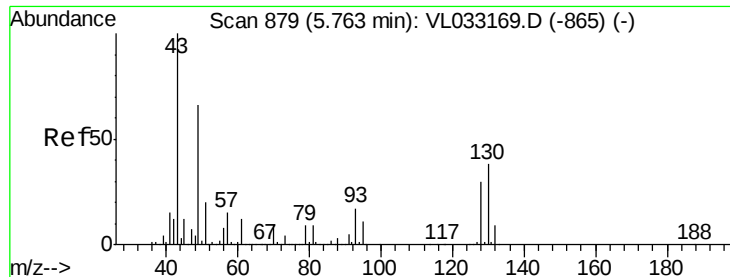
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

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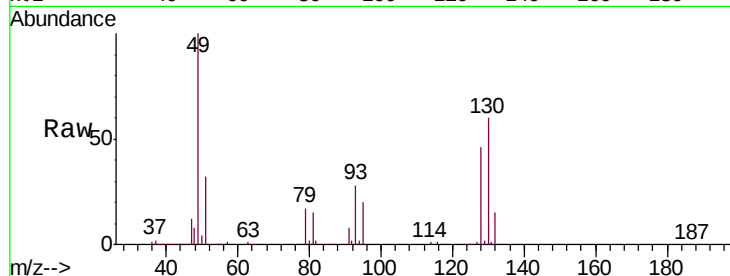
Tgt Ion: 49 Resp: 809515

Ion Ratio Lower Upper

49 100

128 46.5 23.6 71.0

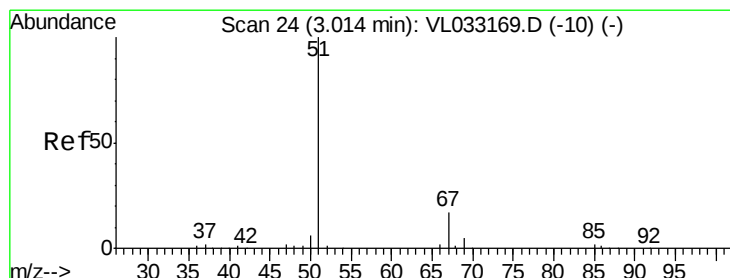
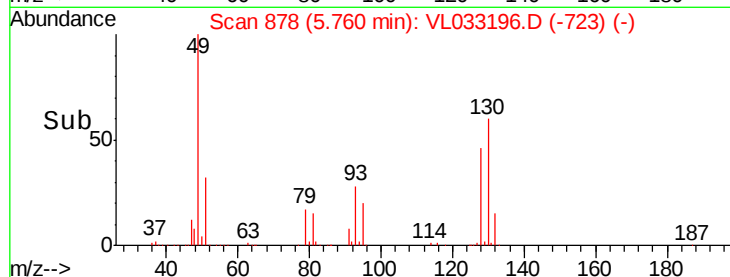
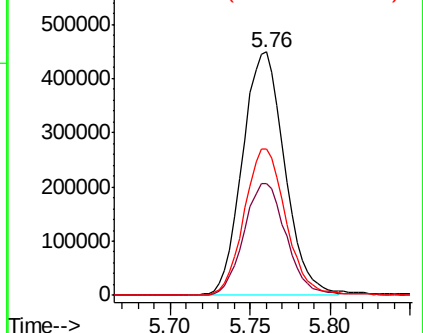
130 60.1 30.3 91.0



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: 0.079 ppbv

RT: 3.01 min Scan# 22

Delta R.T. -0.01 min

Lab File: VL033196.D

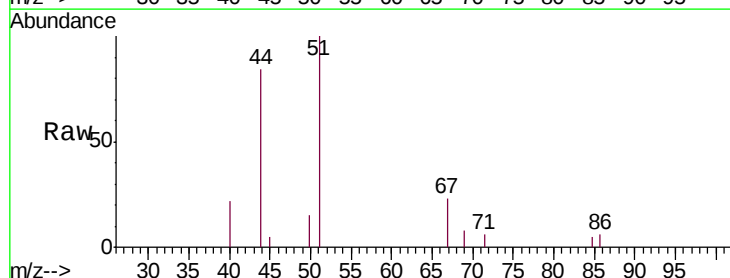
Acq: 13 Feb 2019 21:04

Tgt Ion: 51 Resp: 7738

Ion Ratio Lower Upper

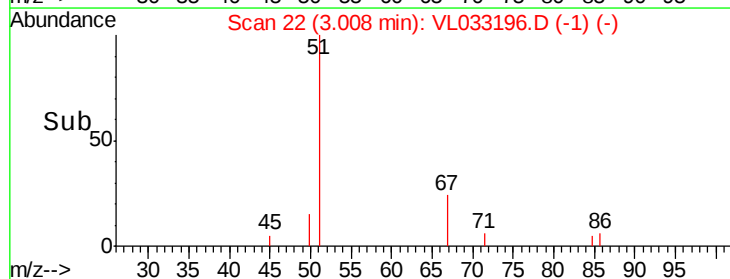
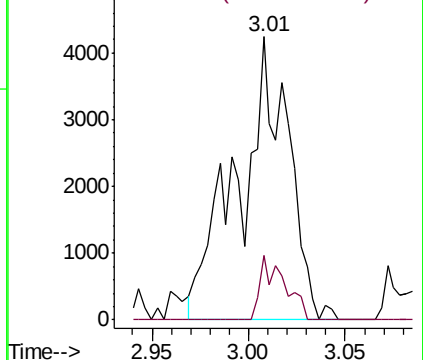
51 100

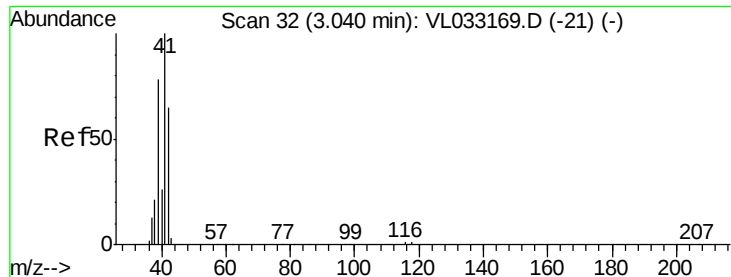
67 11.0 14.0 21.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.115 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL033196.D

Acq: 13 Feb 2019 21:04

Instrument :

MSVOA_L

ClientSampleId :

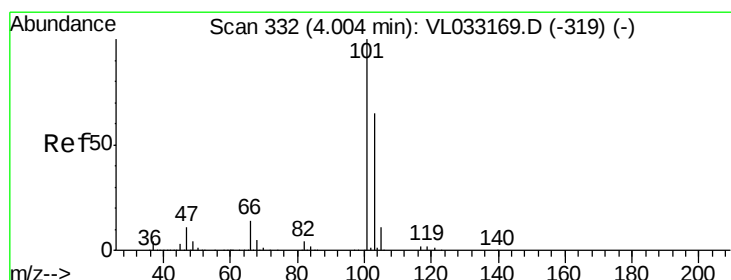
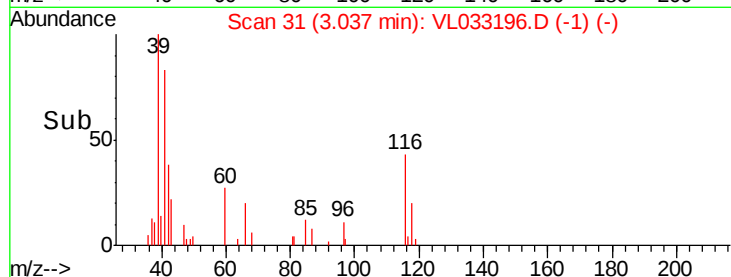
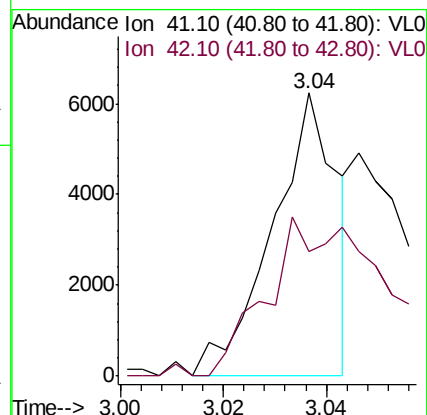
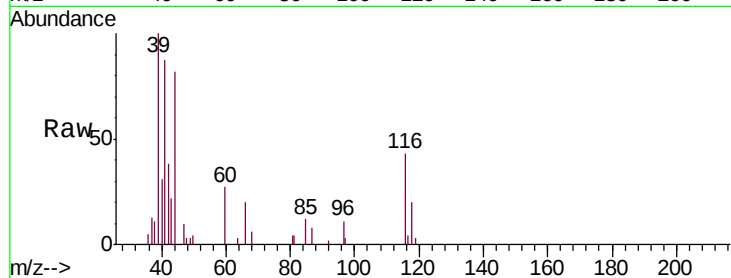
AB-SSDL

Tgt Ion: 41 Resp: 5423

Ion Ratio Lower Upper

41 100

42 100.8 55.0 82.6#



#11

Trichlorofluoromethane

Concen: 0.151 ppbv

RT: 4.00 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL033196.D

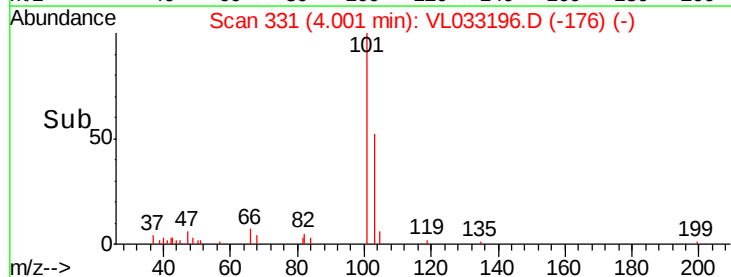
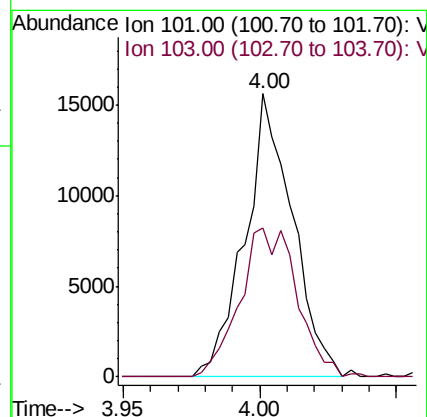
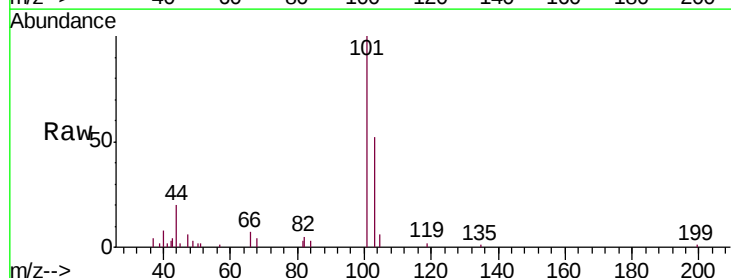
Acq: 13 Feb 2019 21:04

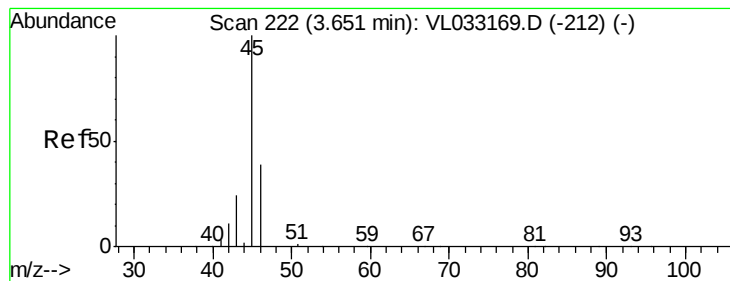
Tgt Ion: 101 Resp: 18909

Ion Ratio Lower Upper

101 100

103 52.4 51.7 77.5





#13

Ethanol

Concen: 1.574 ppbv

RT: 3.66 min Scan# 224

Delta R.T. 0.01 min

Lab File: VL033196.D

Acq: 13 Feb 2019 21:04

Instrument :

MSVOA_L

ClientSampleId :

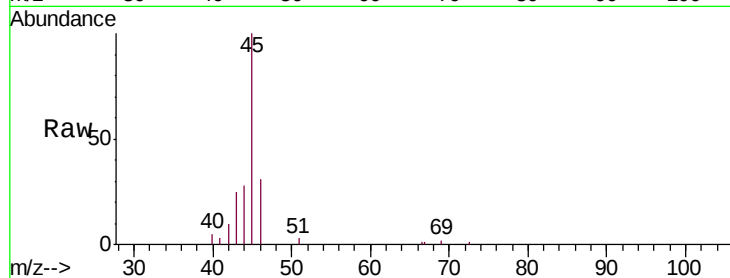
AB-SSDL

Tgt Ion: 45 Resp: 24713

Ion Ratio Lower Upper

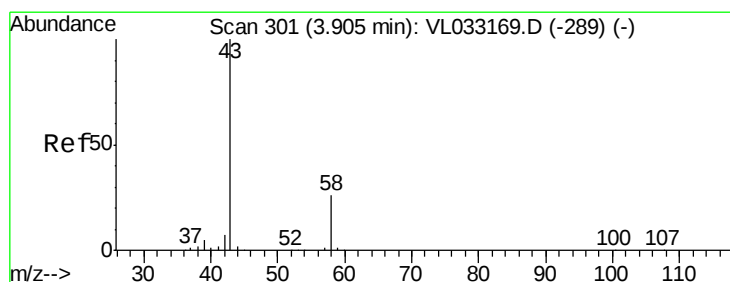
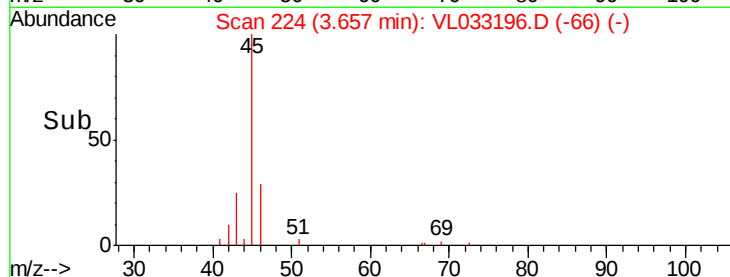
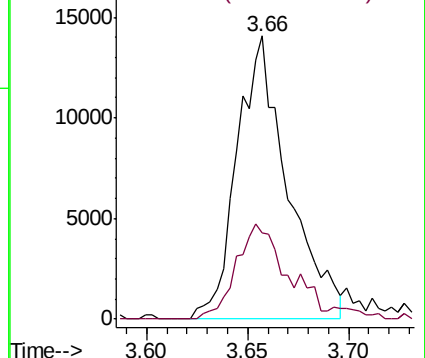
45 100

46 36.2 15.0 60.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#15

Acetone

Concen: 2.644 ppbv

RT: 3.90 min Scan# 300

Delta R.T. -0.00 min

Lab File: VL033196.D

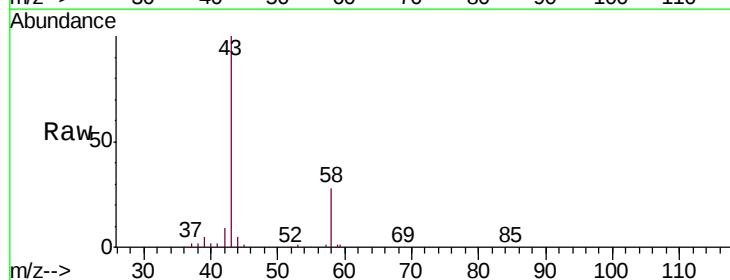
Acq: 13 Feb 2019 21:04

Tgt Ion: 43 Resp: 241141

Ion Ratio Lower Upper

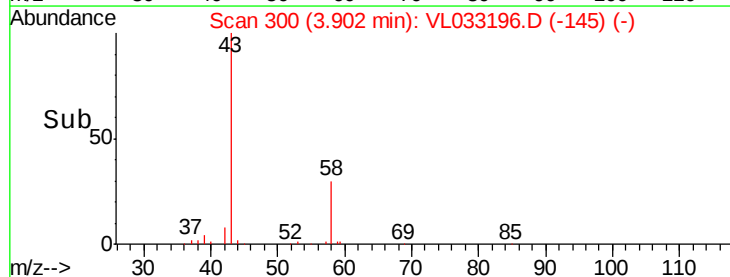
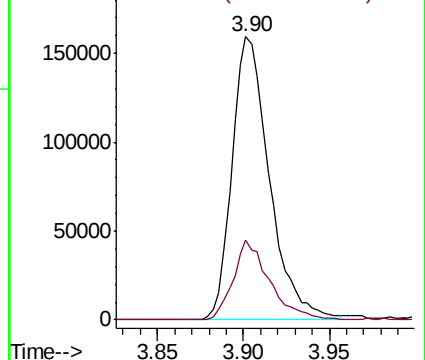
43 100

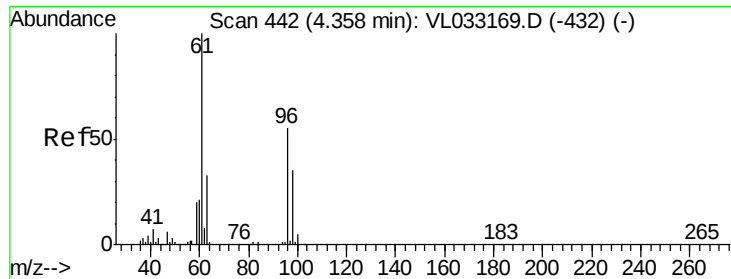
58 27.8 21.1 31.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

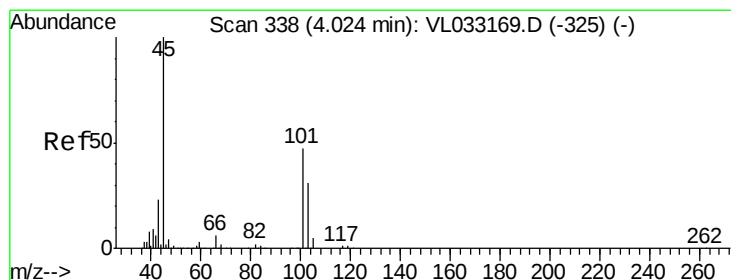
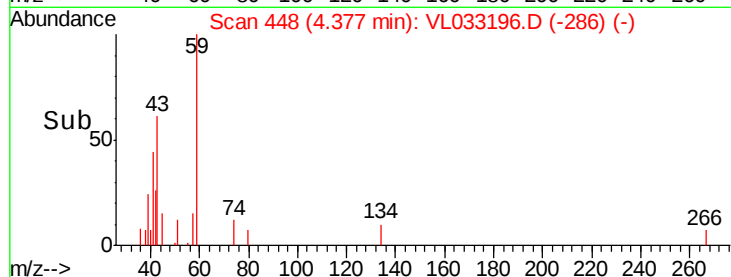
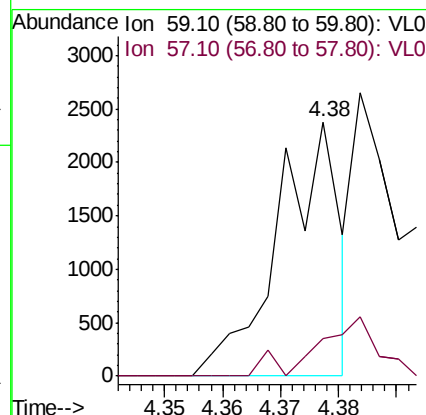
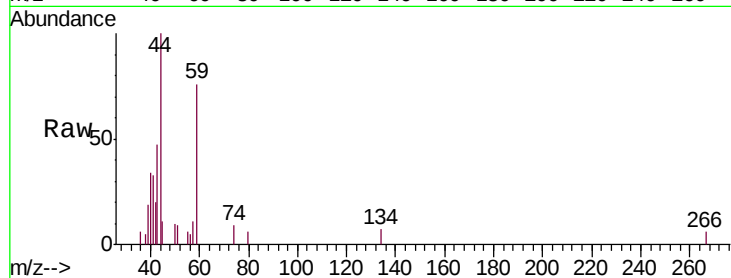




#17
tert-Butyl alcohol
Concen: 0.100 ppbv
RT: 4.38 min Scan# 448
Delta R.T. 0.02 min
Lab File: VL033196.D
Acq: 13 Feb 2019 21:04

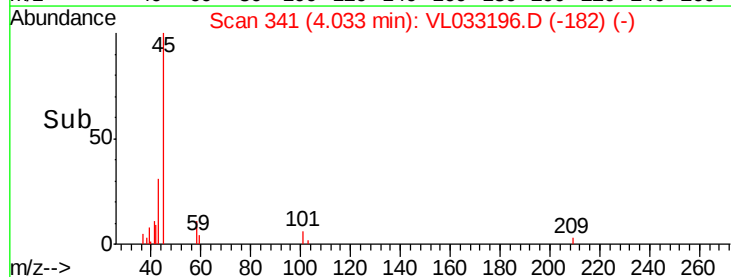
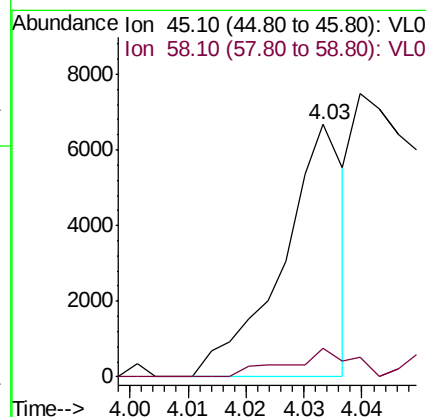
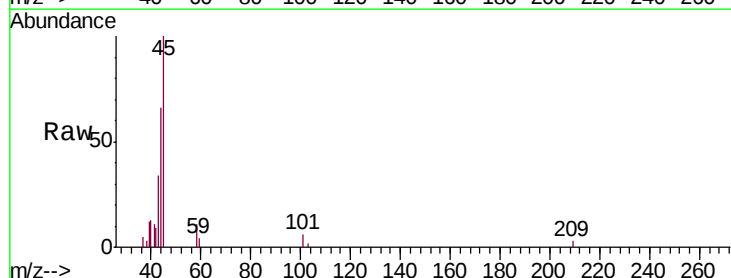
Instrument :
MSVOA_L
ClientSampleId :
AB-SSDL

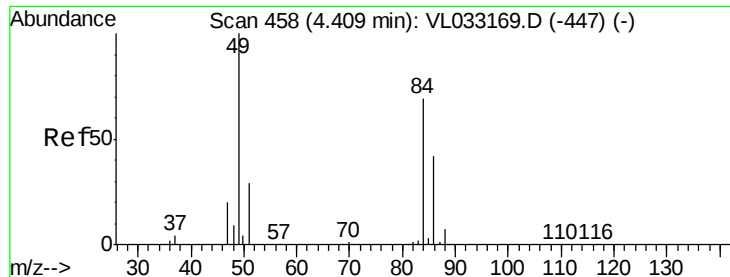
Tgt Ion: 59 Resp: 1739
Ion Ratio Lower Upper
59 100
57 0.0 7.6 11.4#



#19
Isopropyl Alcohol
Concen: 0.080 ppbv
RT: 4.03 min Scan# 341
Delta R.T. 0.01 min
Lab File: VL033196.D
Acq: 13 Feb 2019 21:04

Tgt Ion: 45 Resp: 4970
Ion Ratio Lower Upper
45 100
58 0.0 1.5 2.3#

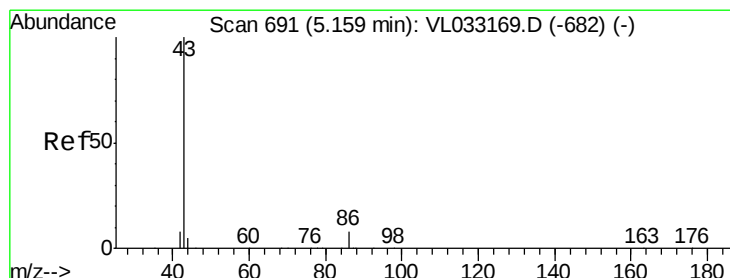
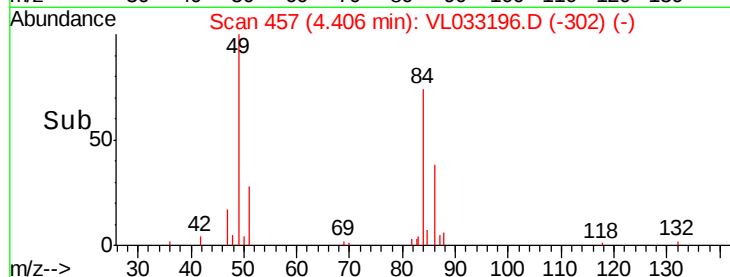
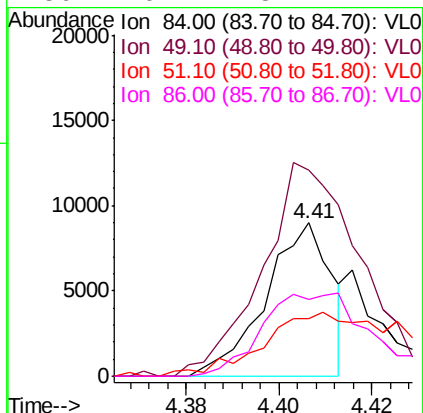
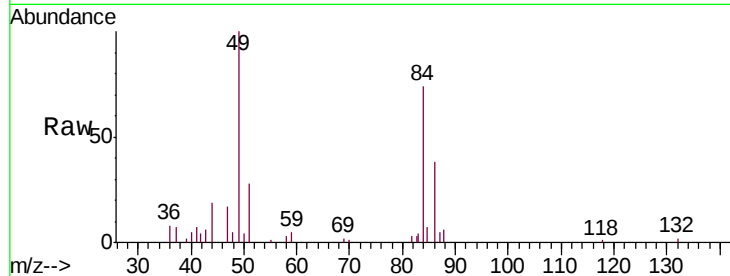




#20
Methylene Chloride
Concen: 0.244 ppbv
RT: 4.41 min Scan# 457
Delta R.T. -0.00 min
Lab File: VL033196.D
Acq: 13 Feb 2019 21:04

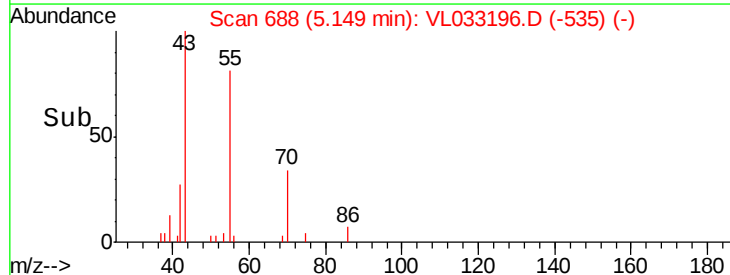
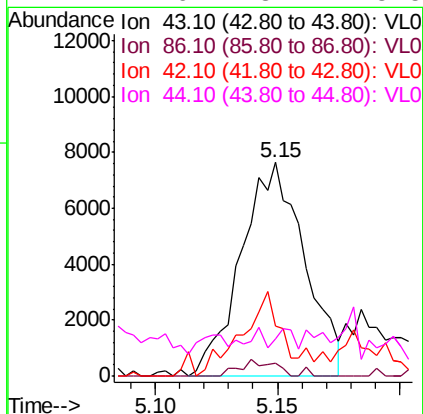
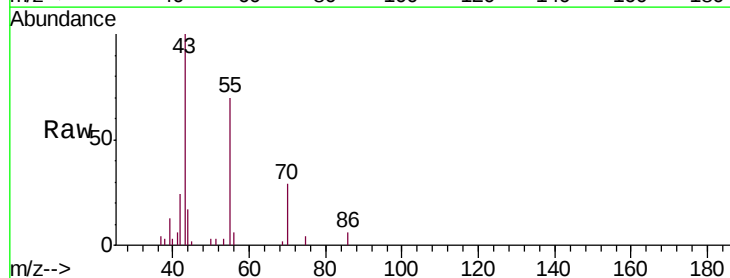
Instrument :
MSVOA_L
ClientSampleId :
AB-SSDL

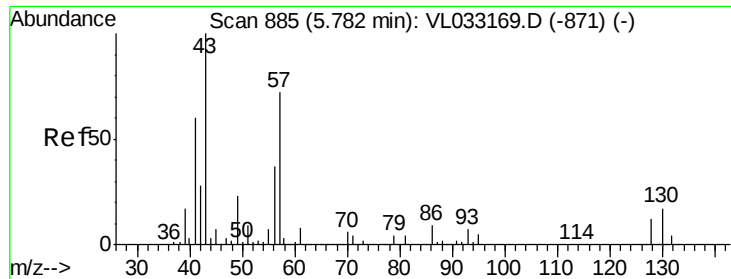
Tgt Ion: 84 Resp: 8844
Ion Ratio Lower Upper
84 100
49 113.4 115.8 173.8#
51 30.1 33.0 49.6#
86 46.2 48.2 72.2#



#23
Vinyl Acetate
Concen: 0.087 ppbv
RT: 5.15 min Scan# 688
Delta R.T. -0.01 min
Lab File: VL033196.D
Acq: 13 Feb 2019 21:04

Tgt Ion: 43 Resp: 13756
Ion Ratio Lower Upper
43 100
86 5.7 5.8 8.8#
42 12.0 7.4 11.0#
44 4.6 3.7 5.5

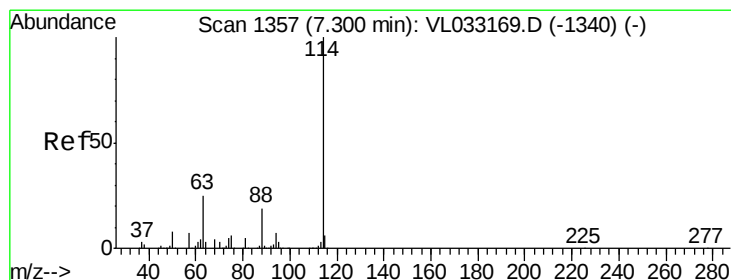
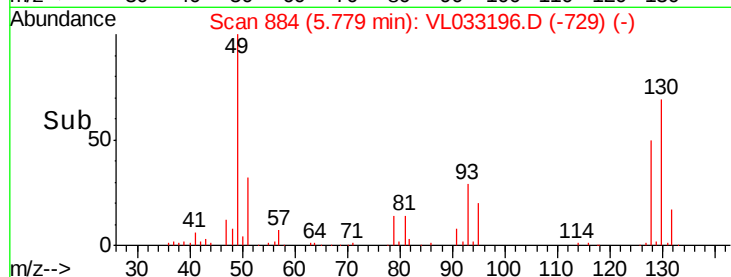
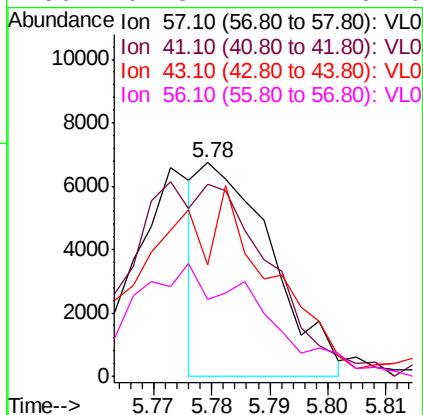
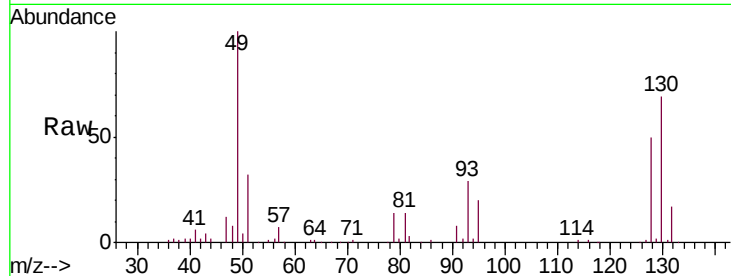




#26
Hexane
Concen: 0.060 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033196.D
Acq: 13 Feb 2019 21:04

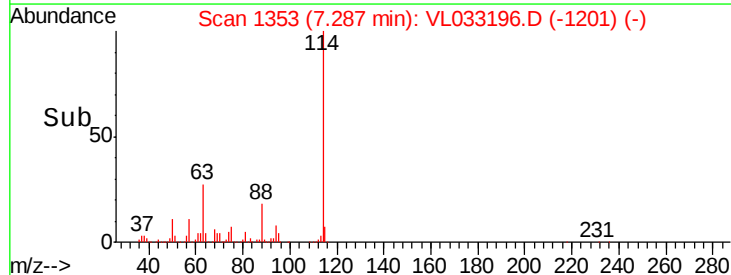
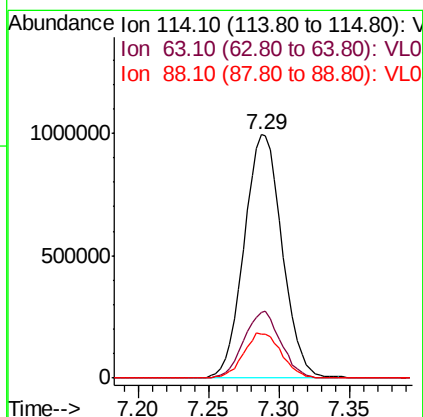
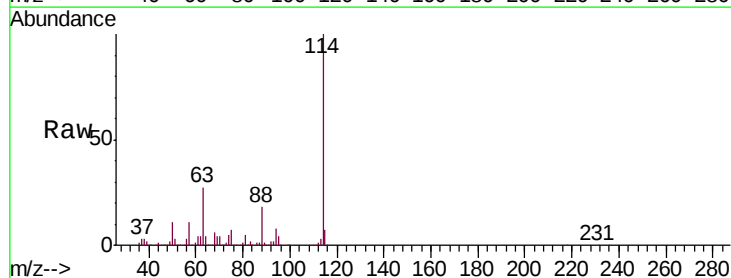
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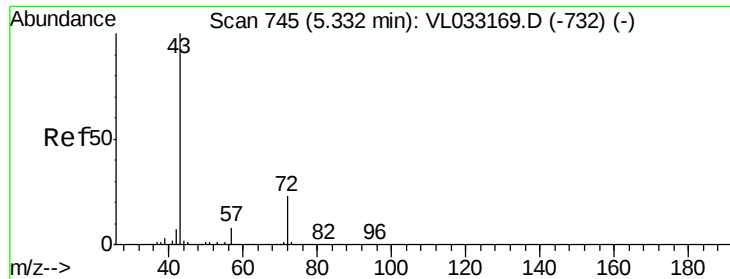
Tgt Ion: 57 Resp: 5775
Ion Ratio Lower Upper
57 100
41 0.0 69.4 104.2#
43 169.5 176.7 265.1#
56 101.8 41.4 62.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. -0.01 min
Lab File: VL033196.D
Acq: 13 Feb 2019 21:04

Tgt Ion: 114 Resp: 1877637
Ion Ratio Lower Upper
114 100
63 26.8 20.8 31.2
88 18.5 14.6 22.0

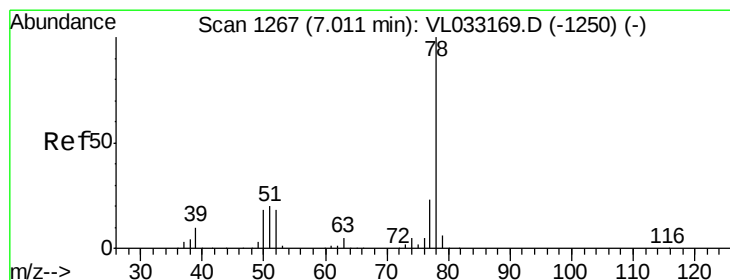
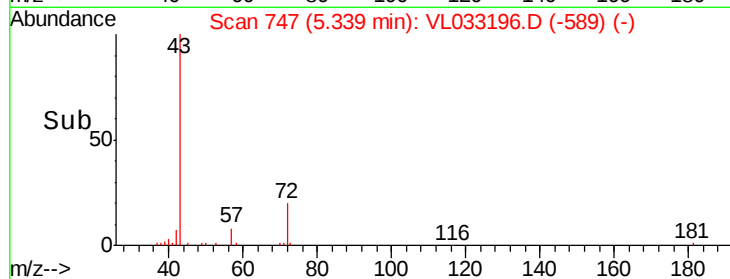
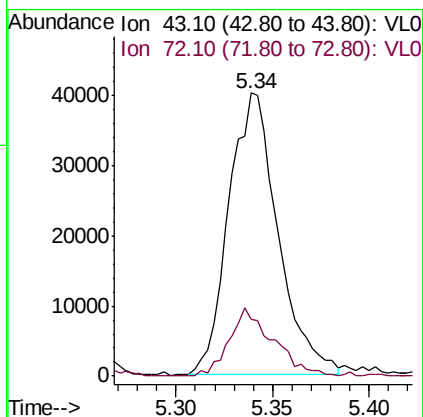
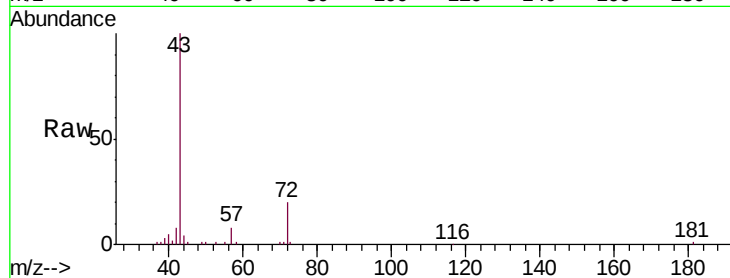




#34
 2-Butanone
 Concen: 0.595 ppbv
 RT: 5.34 min Scan# 747
 Delta R.T. 0.01 min
 Lab File: VL033196.D
 Acq: 13 Feb 2019 21:04

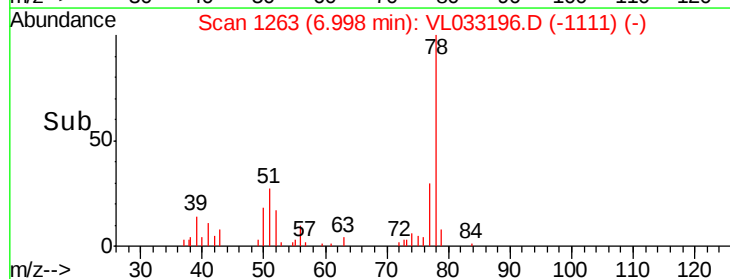
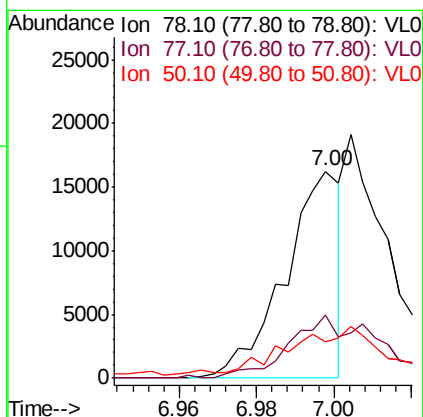
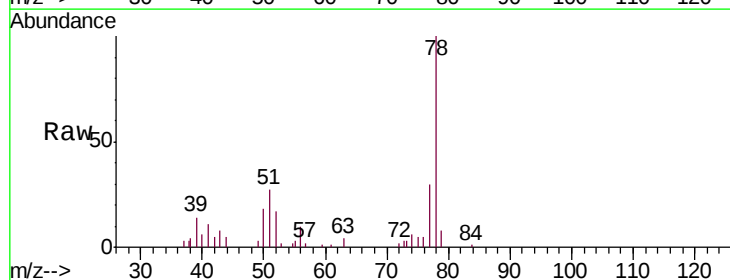
Instrument :
 MSVOA_L
 ClientSampleId :
 AB-SSDL

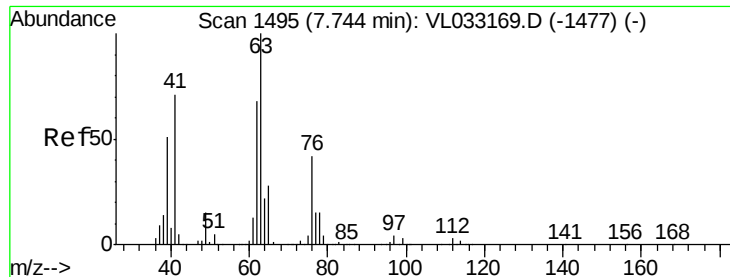
Tgt Ion: 43 Resp: 70877
 Ion Ratio Lower Upper
 43 100
 72 21.8 17.8 26.6



#36
 Benzene
 Concen: 0.085 ppbv
 RT: 7.00 min Scan# 1263
 Delta R.T. -0.01 min
 Lab File: VL033196.D
 Acq: 13 Feb 2019 21:04

Tgt Ion: 78 Resp: 16270
 Ion Ratio Lower Upper
 78 100
 77 28.8 18.0 27.0#
 50 14.8 14.2 21.2





#39

1,2-Dichloropropane

Concen: 6.640 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.45 min

Lab File: VL033196.D

Acq: 13 Feb 2019 21:04

Instrument :

MSVOA_L

ClientSampleId :

AB-SSDL

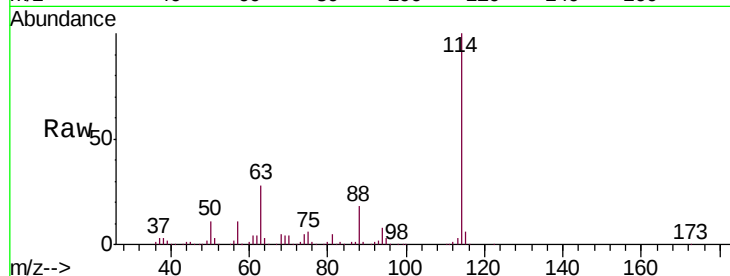
Tgt Ion: 63 Resp: 499007

Ion Ratio Lower Upper

63 100

41 0.0 56.4 84.6#

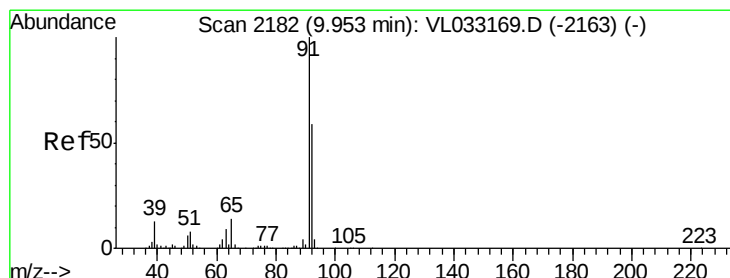
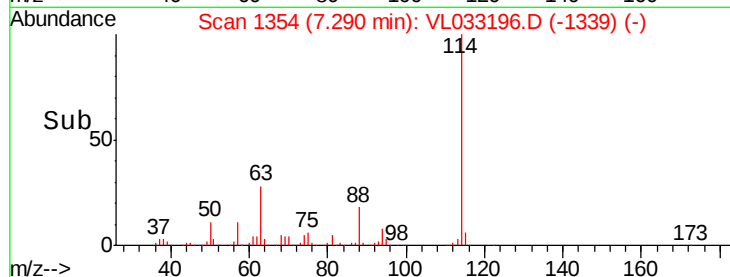
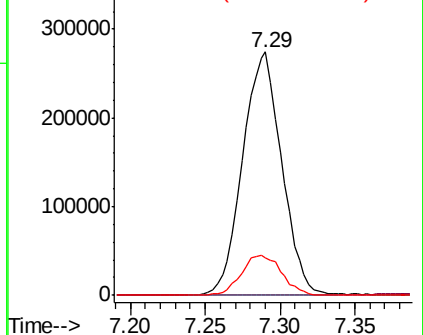
62 15.5 54.2 81.4#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#53

Toluene

Concen: 0.084 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.01 min

Lab File: VL033196.D

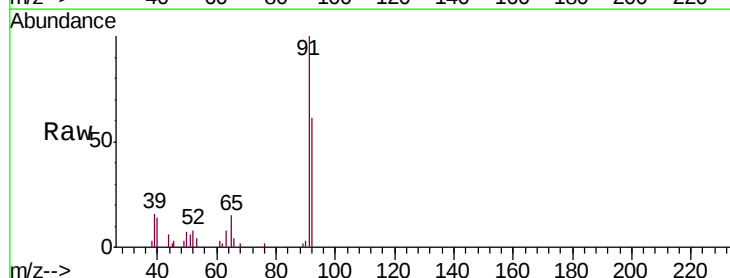
Acq: 13 Feb 2019 21:04

Tgt Ion: 91 Resp: 18865

Ion Ratio Lower Upper

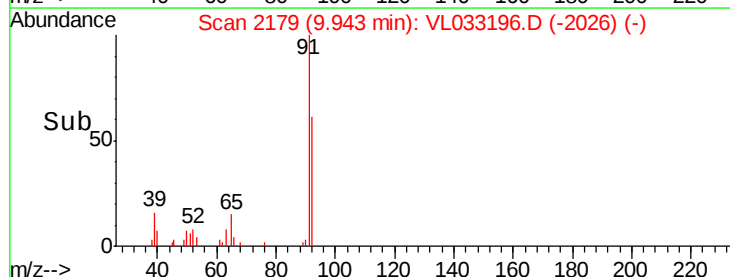
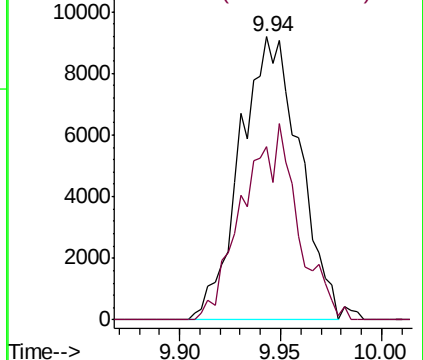
91 100

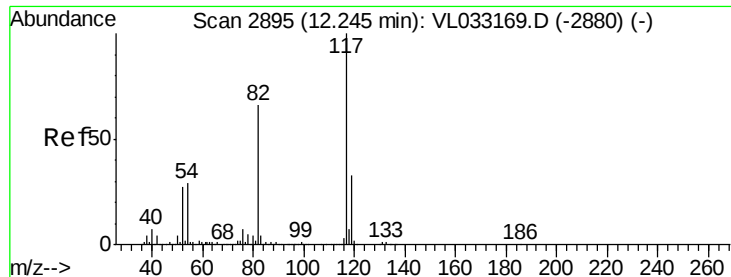
92 64.0 48.0 72.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

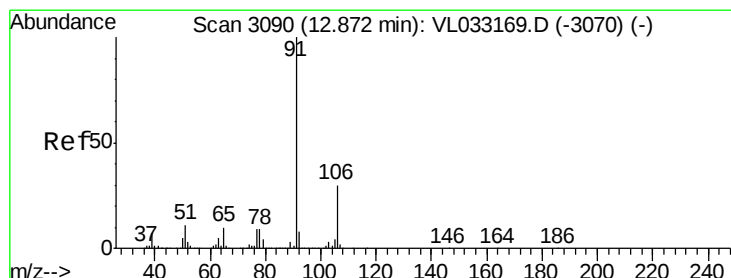
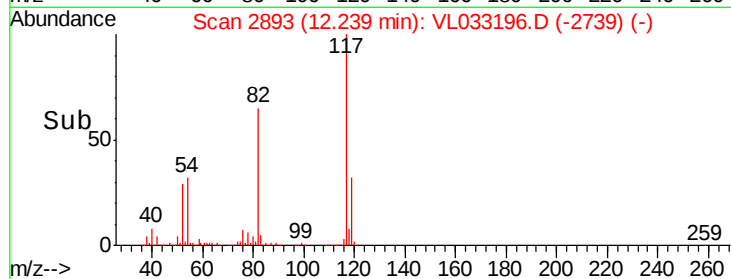
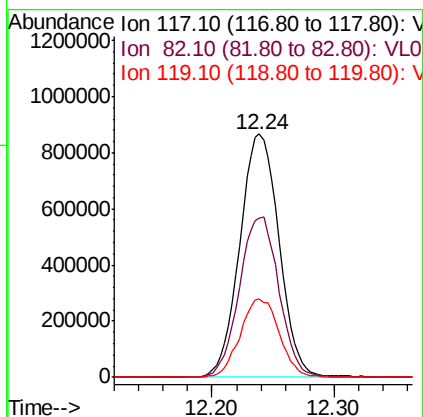
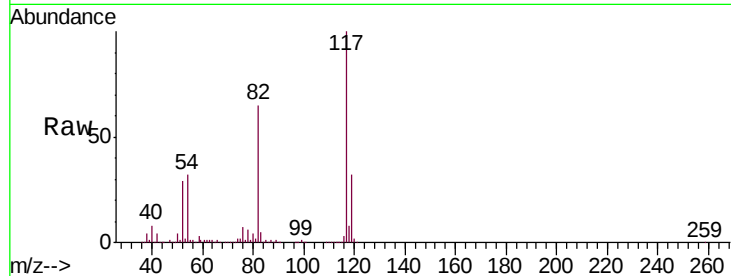




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL033196.D
Acq: 13 Feb 2019 21:04

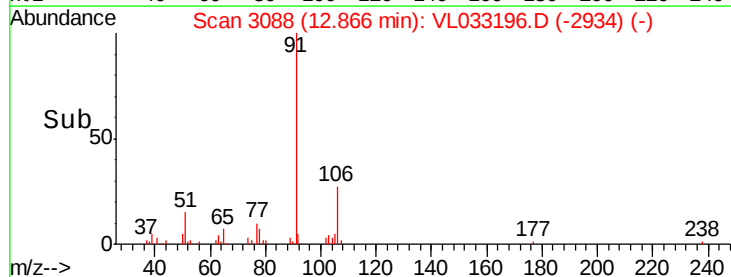
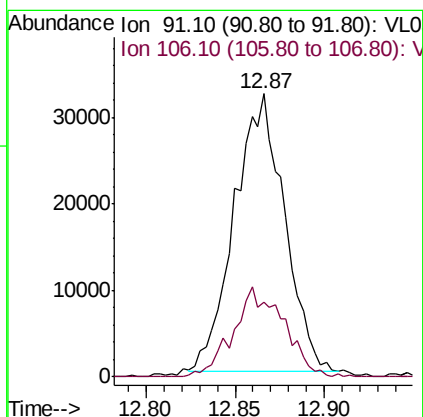
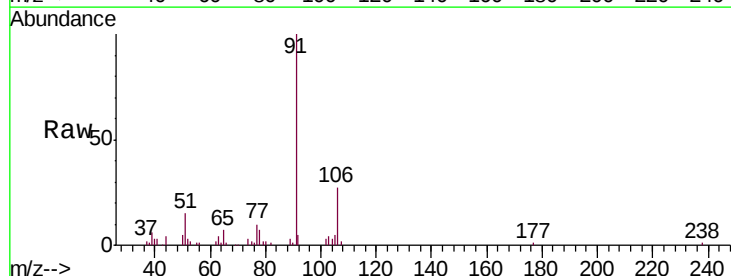
Instrument :
MSVOA_L
ClientSampleId :
AB-SSDL

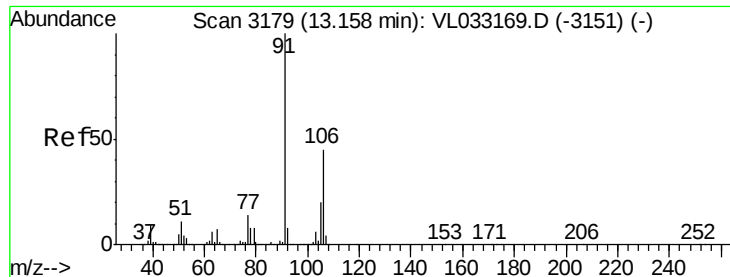
Tgt Ion:117 Resp: 1923750
Ion Ratio Lower Upper
117 100
82 66.9 49.5 74.3
119 32.2 24.4 36.6



#58
Ethyl Benzene
Concen: 0.202 ppbv
RT: 12.87 min Scan# 3088
Delta R.T. -0.01 min
Lab File: VL033196.D
Acq: 13 Feb 2019 21:04

Tgt Ion: 91 Resp: 62742
Ion Ratio Lower Upper
91 100
106 26.4 23.8 35.8

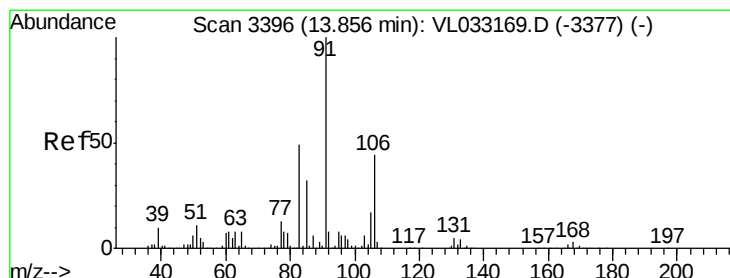
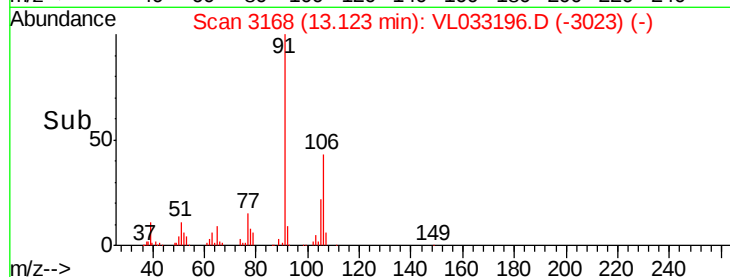
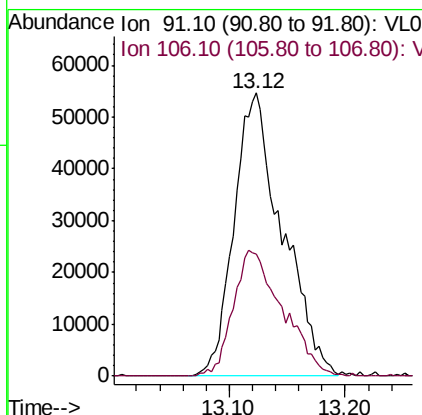
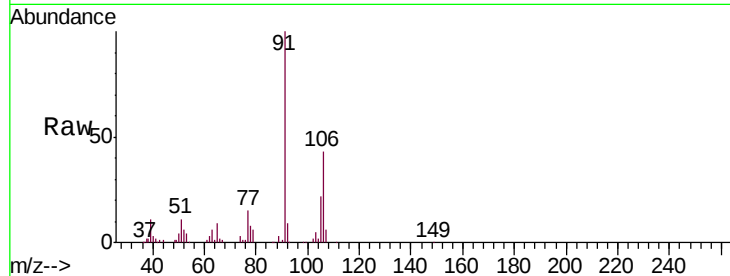




#59
m/p-Xylene
Concen: 0.607 ppbv
RT: 13.12 min Scan# 3168
Delta R.T. -0.04 min
Lab File: VL033196.D
Acq: 13 Feb 2019 21:04

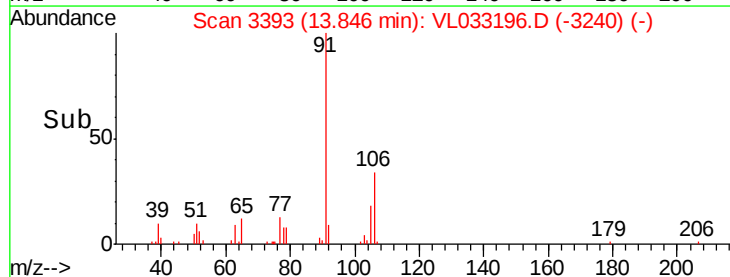
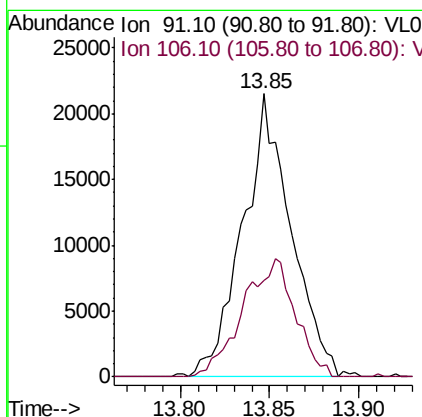
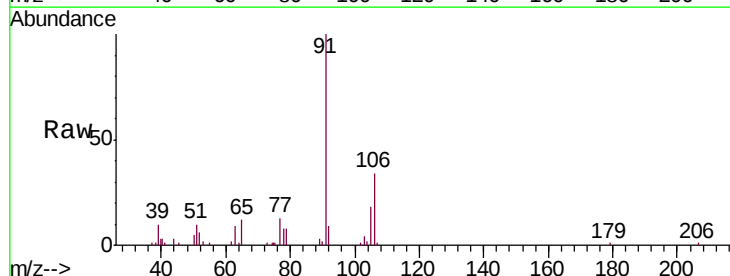
Instrument :
MSVOA_L
ClientSampleId :
AB-SSDL

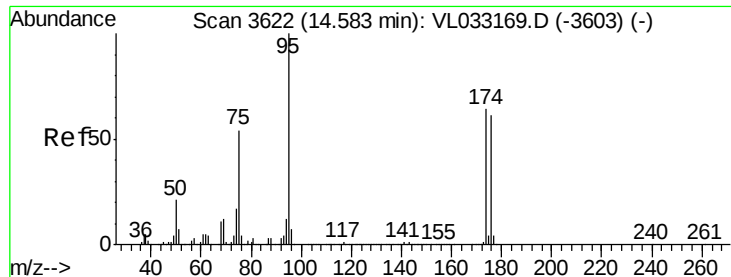
Tgt Ion: 91 Resp: 157622
Ion Ratio Lower Upper
91 100
106 45.4 0.0 0.0#



#60
o-Xylene
Concen: 0.161 ppbv
RT: 13.85 min Scan# 3393
Delta R.T. -0.01 min
Lab File: VL033196.D
Acq: 13 Feb 2019 21:04

Tgt Ion: 91 Resp: 40594
Ion Ratio Lower Upper
91 100
106 45.4 21.8 65.3





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.360 ppbv
 RT: 14.58 min Scan# 3620
 Delta R.T. -0.01 min
 Lab File: VL033196.D
 Acq: 13 Feb 2019 21:04

Instrument :
 MSVOA_L
 ClientSampleId :
 AB-SSDL

Tgt Ion: 95 Resp: 1534892
 Ion Ratio Lower Upper
 95 100
 174 63.9 51.2 76.8
 175 4.6 3.8 5.6

