

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021419\
 Data File : VL033211.D
 Acq On : 14 Feb 2019 23:34
 Operator : SY/AP
 Sample : K1483-05
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ZONE-E

Quant Time: Feb 15 15:35:56 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	5.77	49	948624	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2100110	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2074311	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1704699	10.67	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.70%

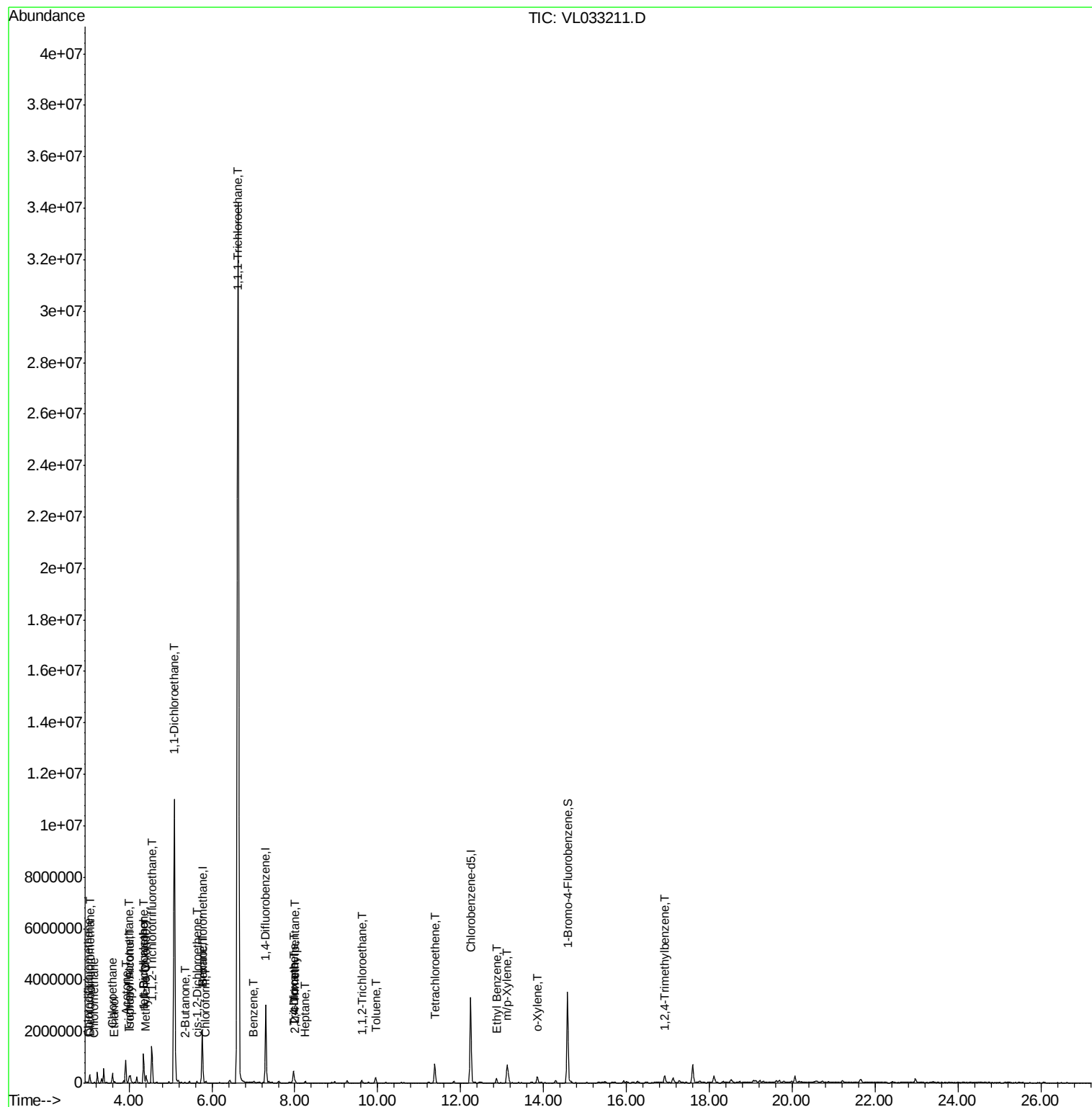
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	25081	0.138	ppbv	96
3) Chlorodifluoromethane	3.01	51	31761	0.278	ppbv	100
4) Chloromethane	3.17	50	7246m	0.120	ppbv	
7) Chloroethane	3.60	64	239374	11.627	ppbv	97
10) Heptane	8.25	43	28461	0.170	ppbv	96
11) Trichlorofluoromethane	4.00	101	171509	1.168	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.55	101	515660	5.067	ppbv	98
13) Ethanol	3.65	45	39876	2.167	ppbv	97
15) Acetone	3.91	43	623527	5.834	ppbv #	87
17) tert-Butyl alcohol	4.36	59	58685	2.880	ppbv	96
18) 1,1-Dichloroethene	4.35	96	316172	6.941	ppbv	98
19) Isopropyl Alcohol	4.03	45	283495m	3.911	ppbv	
20) Methylene Chloride	4.41	84	86442	2.033	ppbv	94
24) 1,1-Dichloroethane	5.09	63	10354517	79.032	ppbv	97
26) Hexane	5.78	57	74617	0.661	ppbv #	41
29) Chloroform	5.85	83	39012	0.226	ppbv	94
31) cis-1,2-Dichloroethene	5.65	61	37762m	0.334	ppbv	
32) 1,1,1-Trichloroethane	6.63	97	24135639	126.794	ppbv #	83
34) 2-Butanone	5.35	43	37623m	0.282	ppbv	
36) Benzene	7.02	78	39001	0.183	ppbv	96
38) Trichloroethene	7.97	130	107899	1.184	ppbv #	86
40) 1,4-Dioxane	7.97	88	85604m	2.802	ppbv	
44) 2,2,4-Trimethylpentane	8.00	57	90037	0.250	ppbv	96
47) 1,1,2-Trichloroethane	9.62	97	37181m	0.426	ppbv	
52) Tetrachloroethene	11.38	164	178458	2.182	ppbv	95
53) Toluene	9.95	91	134629	0.534	ppbv	98
58) Ethyl Benzene	12.87	91	162218m	0.483	ppbv	
59) m/p-Xylene	13.12	91	757562	2.704	ppbv #	100
60) o-Xylene	13.85	91	195977	0.719	ppbv	99
74) 1,2,4-Trimethylbenzene	16.92	105	109404m	0.351	ppbv	

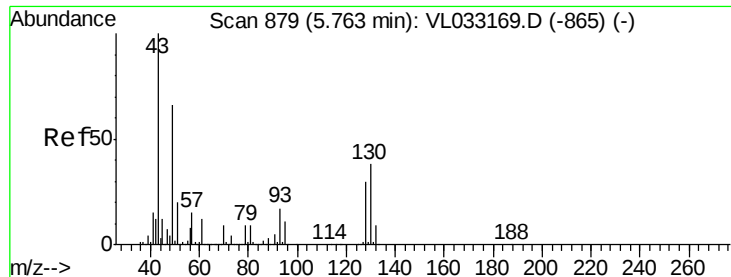
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Feb 06 09:13:11 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. 0.00 min

Lab File: VL033211.D

Acq: 14 Feb 2019 23:34

Instrument :

MSVOA_L

ClientSampleId :

ZONE-E

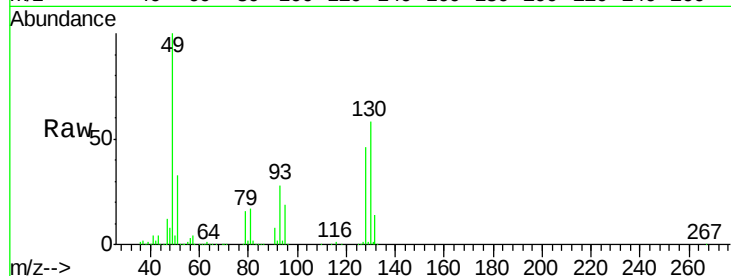
Tot Ion: 49 Resp: 948624

Ion Ratio Lower Upper

49 100

128 45.7 23.6 71.0

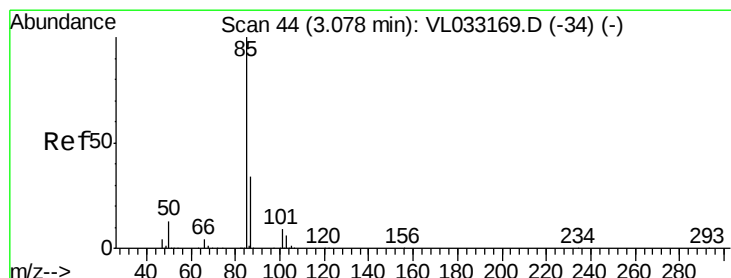
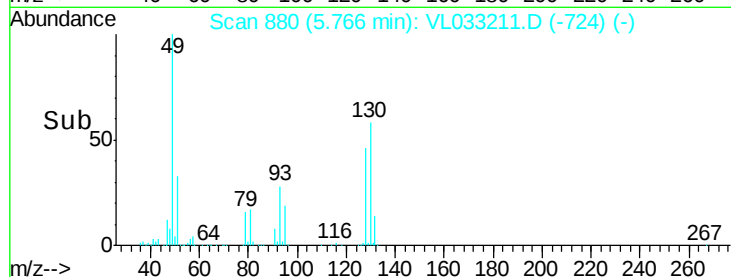
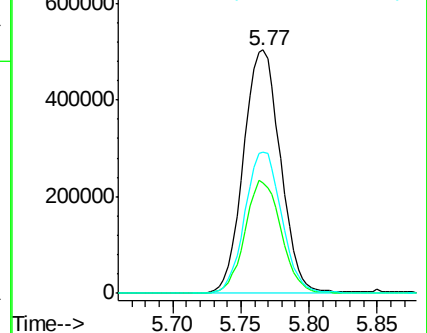
130 58.1 30.3 91.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.138 ppbv

RT: 3.07 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033211.D

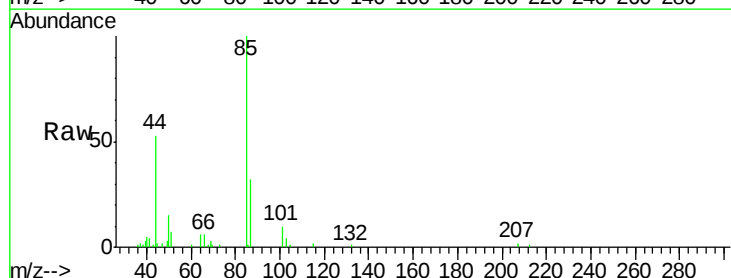
Acq: 14 Feb 2019 23:34

Tgt Ion: 85 Resp: 25081

Ion Ratio Lower Upper

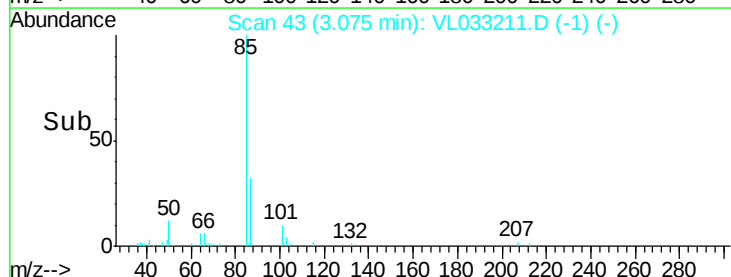
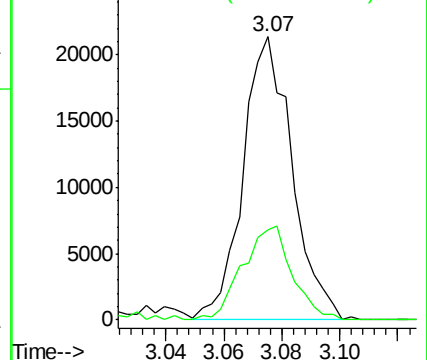
85 100

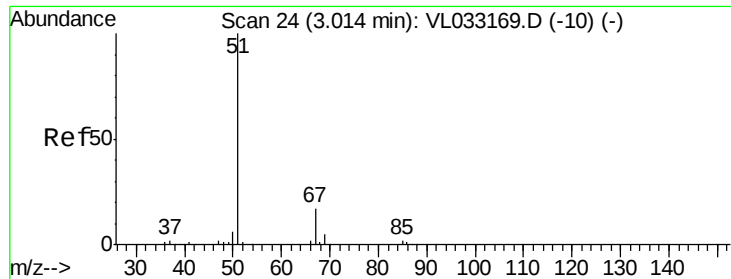
87 31.9 27.4 41.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.278 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.00 min

Lab File: VL033211.D

Acq: 14 Feb 2019 23:34

Instrument :

MSVOA_L

ClientSampleId :

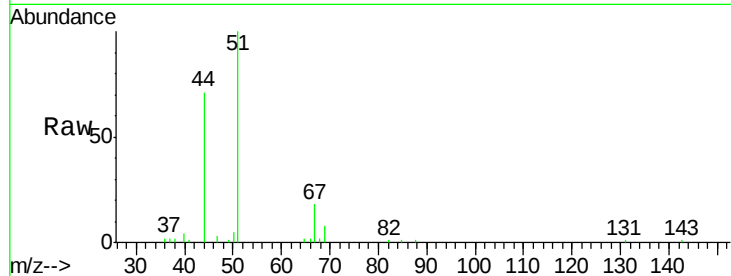
ZONE-E

Tot Ion: 51 Resp: 31761

Ion Ratio Lower Upper

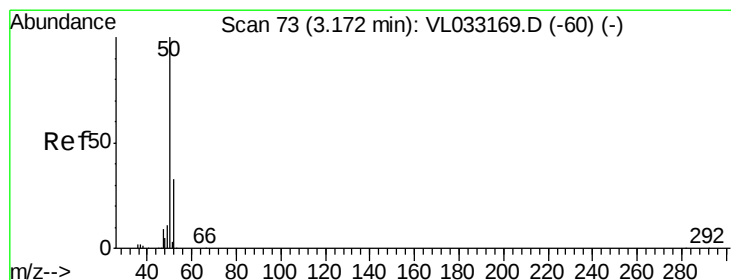
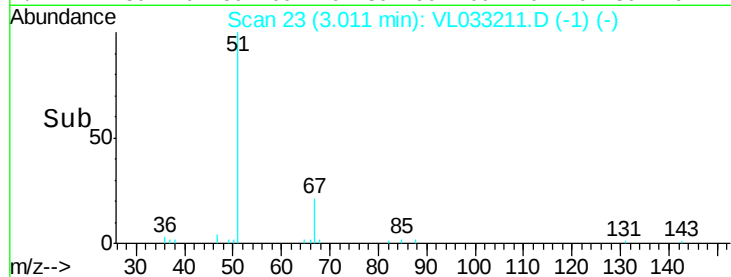
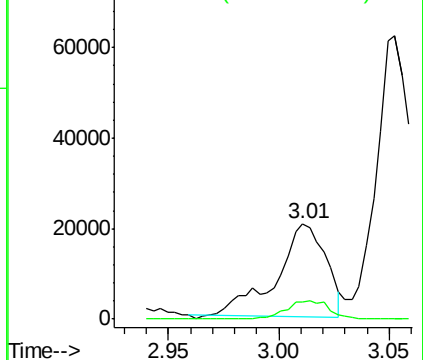
51 100

67 17.7 14.0 21.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.120 ppbv m

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL033211.D

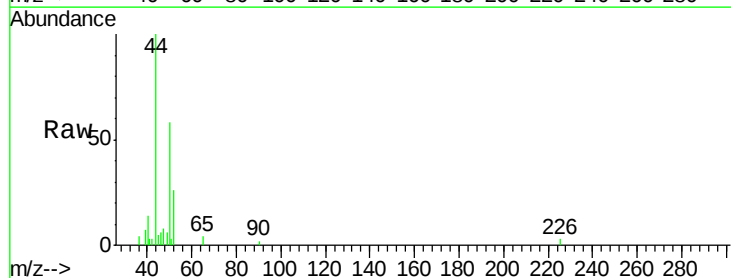
Acq: 14 Feb 2019 23:34

Tgt Ion: 50 Resp: 7246

Ion Ratio Lower Upper

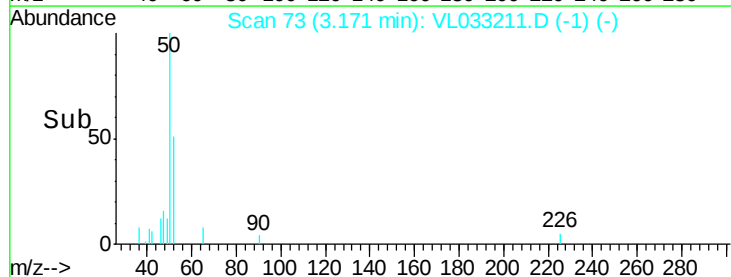
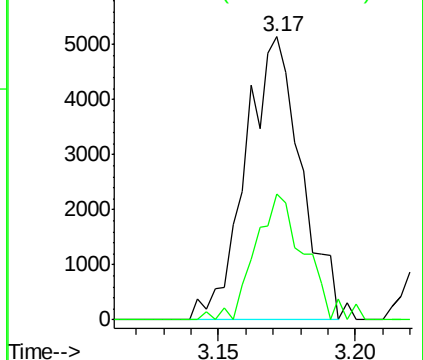
50 100

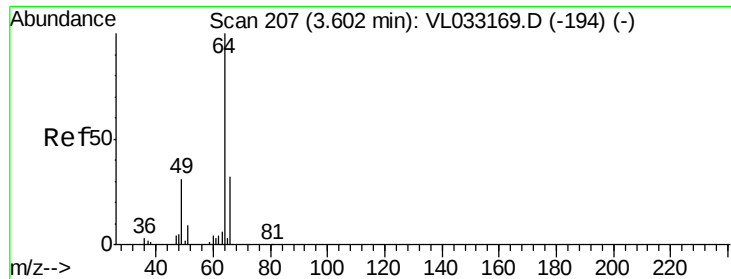
52 44.6 26.5 39.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 11.627 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033211.D

Acq: 14 Feb 2019 23:34

Instrument :

MSVOA_L

ClientSampleId :

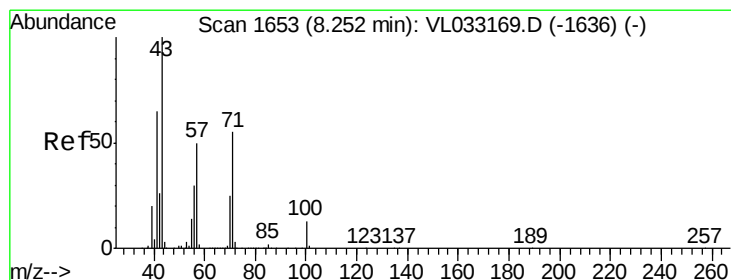
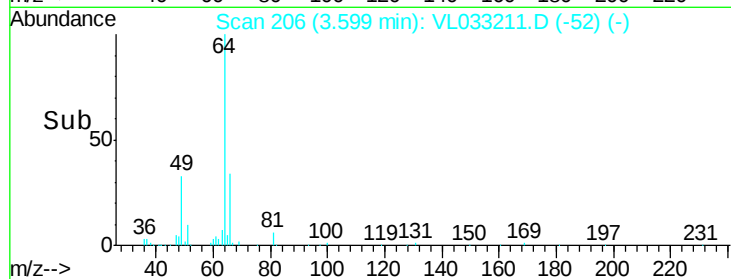
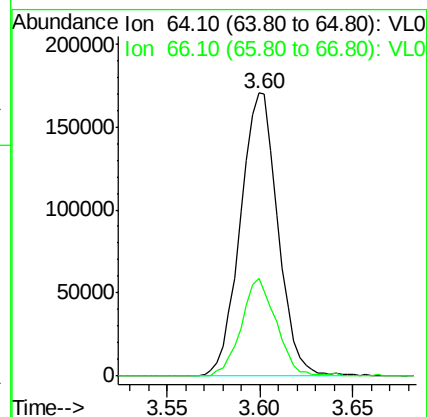
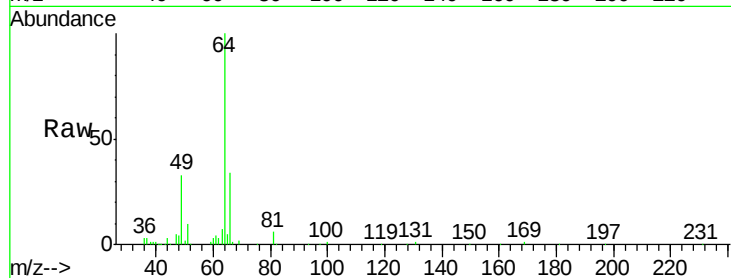
ZONE-E

Tot Ion: 64 Resp: 239374

Ion Ratio Lower Upper

64 100

66 34.5 26.0 39.0



#10

Heptane

Concen: 0.170 ppbv

RT: 8.25 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VL033211.D

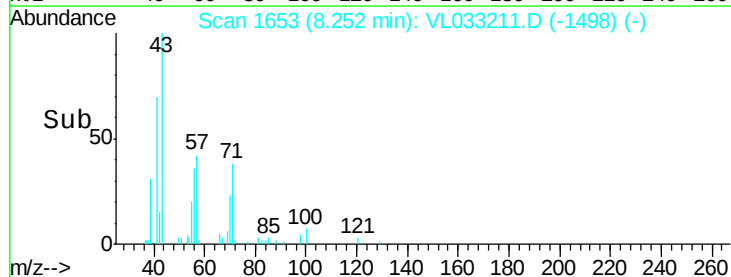
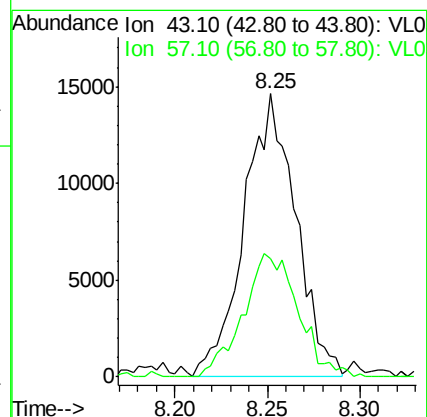
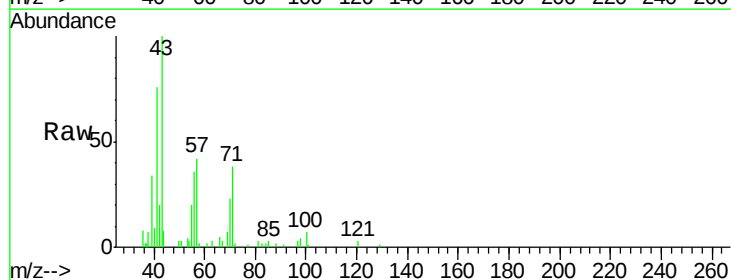
Acq: 14 Feb 2019 23:34

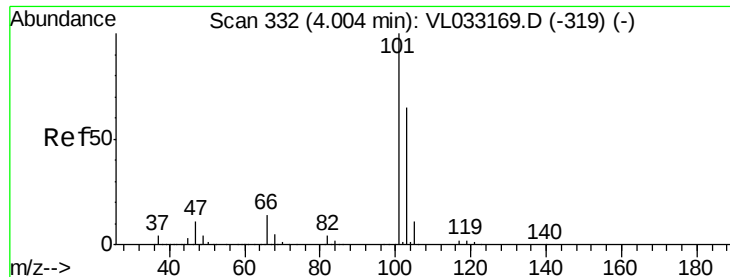
Tgt Ion: 43 Resp: 28461

Ion Ratio Lower Upper

43 100

57 46.5 39.5 59.3





#11

Trichlorofluoromethane

Concen: 1.168 ppbv

RT: 4.00 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL033211.D

Acq: 14 Feb 2019 23:34

Instrument :

MSVOA_L

ClientSampled :

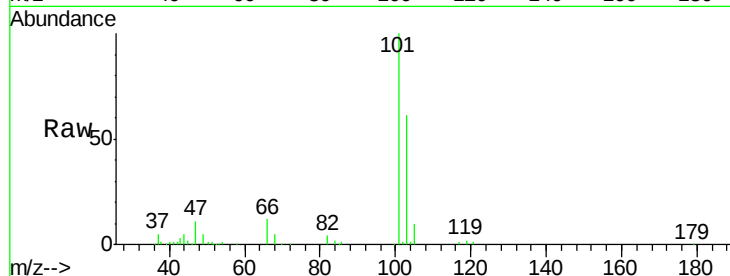
ZONE-E

Tot Ion:101 Resp: 171509

Ion Ratio Lower Upper

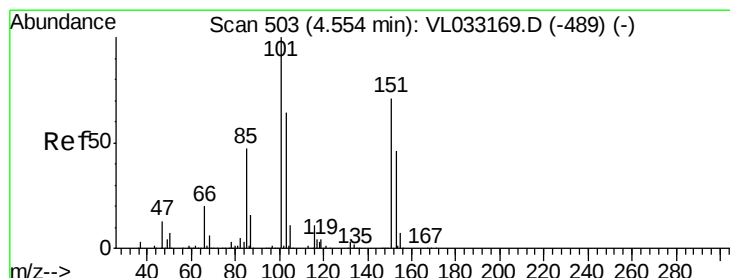
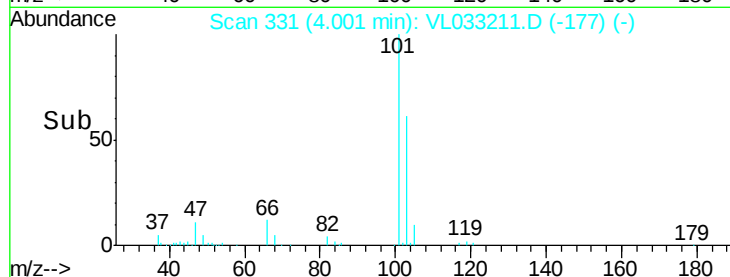
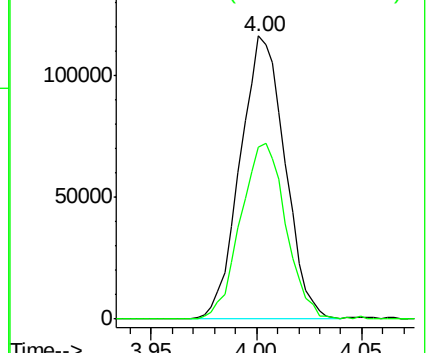
101 100

103 60.4 51.7 77.5



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: 5.067 ppbv

RT: 4.55 min Scan# 501

Delta R.T. -0.01 min

Lab File: VL033211.D

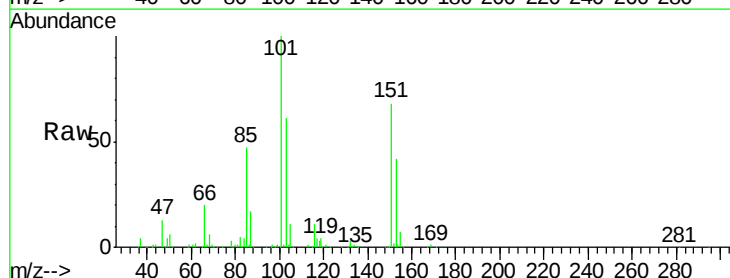
Acq: 14 Feb 2019 23:34

Tgt Ion:101 Resp: 515660

Ion Ratio Lower Upper

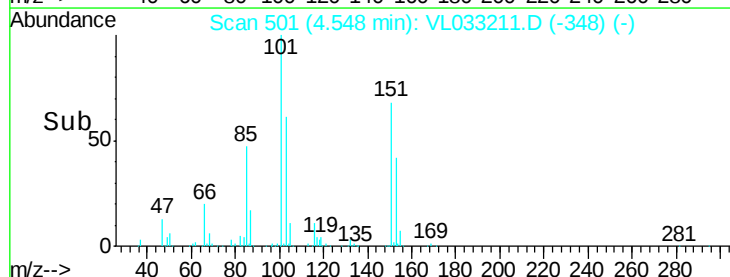
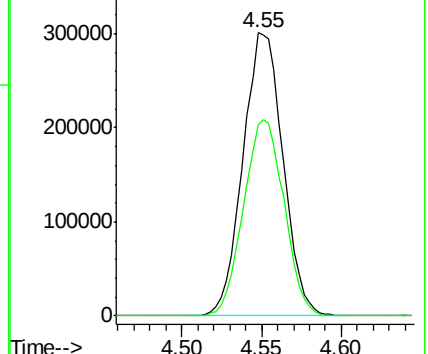
101 100

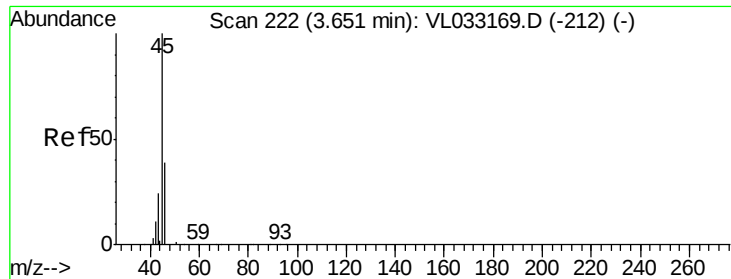
151 69.9 57.4 86.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

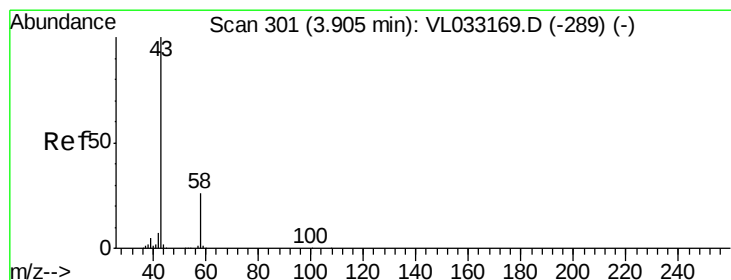
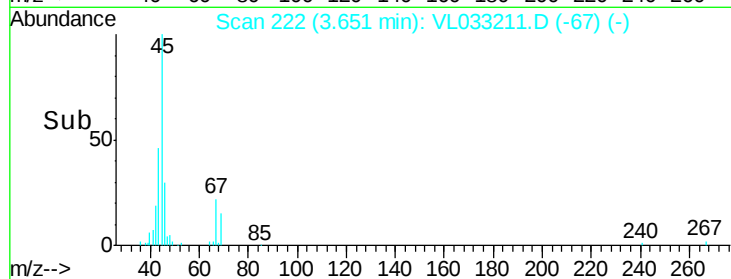
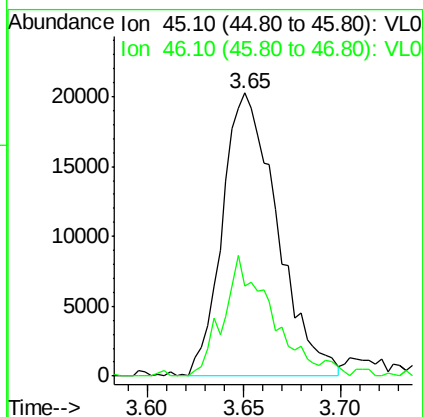
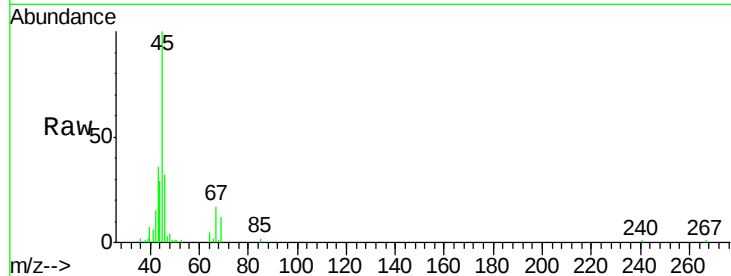




#13
Ethanol
Concen: 2.167 ppbv
RT: 3.65 min Scan# 222
Delta R.T. -0.00 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

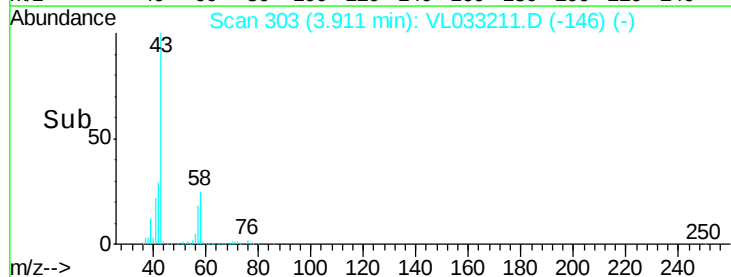
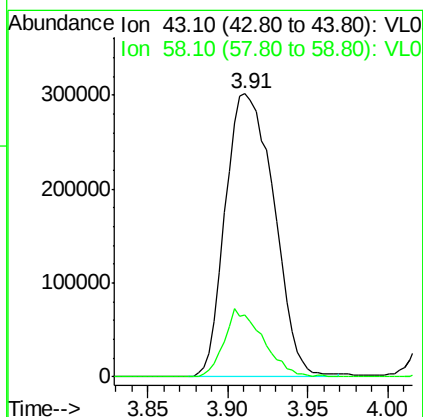
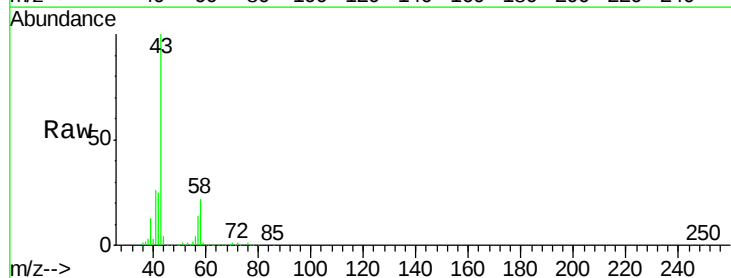
Instrument :
MSVOA_L
ClientSampleId :
ZONE-E

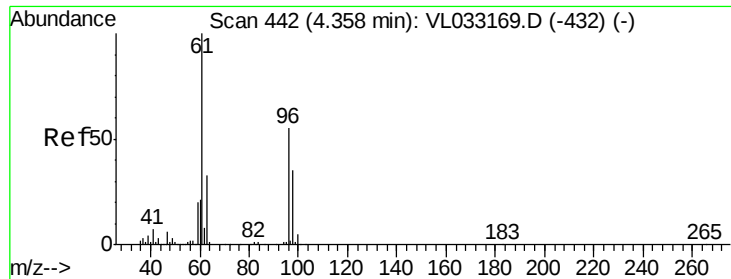
Tot Ion: 45 Resp: 39876
Ion Ratio Lower Upper
45 100
46 39.6 15.0 60.2



#15
Acetone
Concen: 5.834 ppbv
RT: 3.91 min Scan# 303
Delta R.T. 0.01 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 43 Resp: 623527
Ion Ratio Lower Upper
43 100
58 19.5 21.1 31.7#



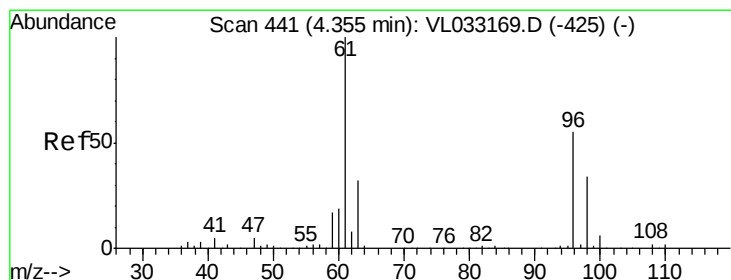
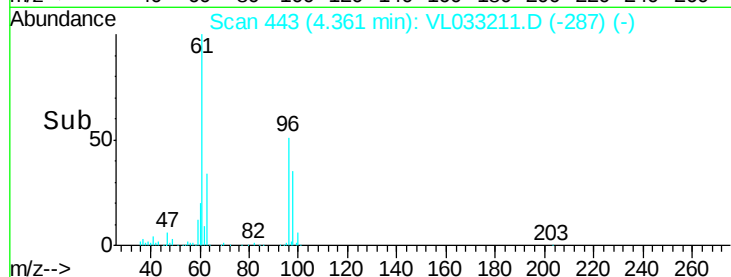
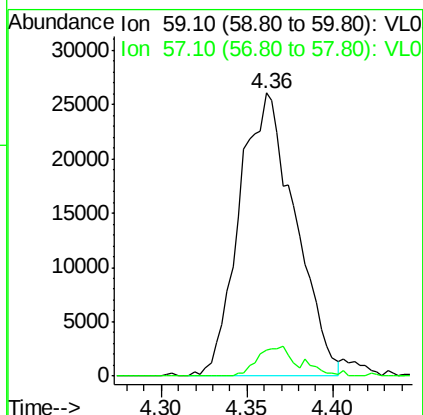
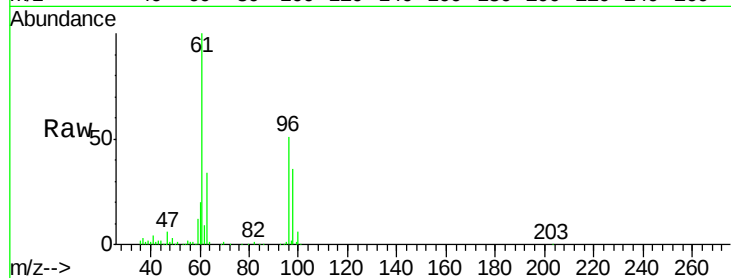


#17

tert-Butyl alcohol
Concen: 2.880 ppbv
RT: 4.36 min Scan# 443
Delta R.T. 0.00 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Instrument :
MSVOA_L
ClientSampleId :
ZONE-E

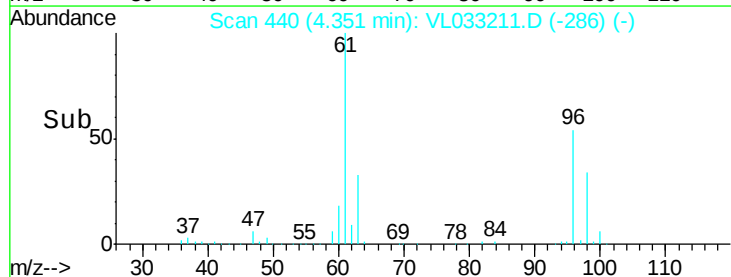
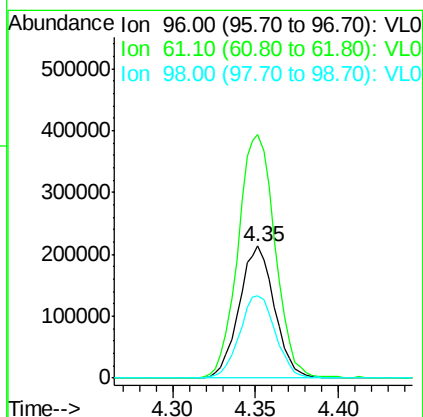
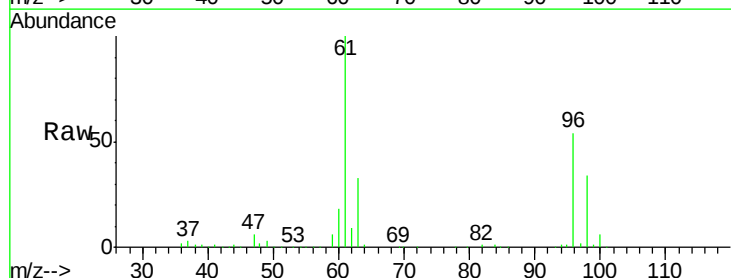
Tot Ion: 59 Resp: 58685
Ion Ratio Lower Upper
59 100
57 7.9 7.6 11.4

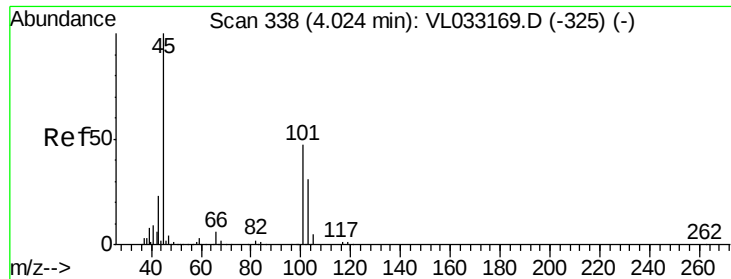


#18

1,1-Dichloroethene
Concen: 6.941 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.00 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 96 Resp: 316172
Ion Ratio Lower Upper
96 100
61 184.2 145.0 217.6
98 62.7 50.0 75.0





#19

Isopropyl Alcohol

Concen: 3.911 ppbv m

RT: 4.03 min Scan# 339

Delta R.T. 0.00 min

Lab File: VL033211.D

Acq: 14 Feb 2019 23:34

Instrument :

MSVOA_L

ClientSampleId :

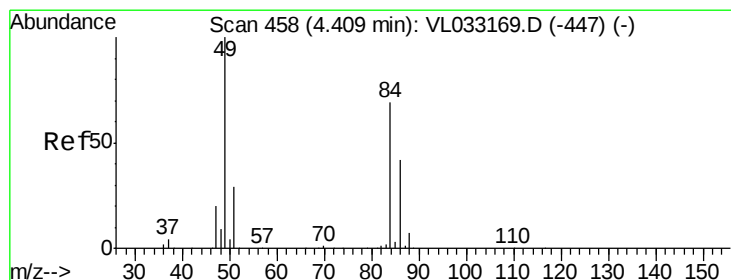
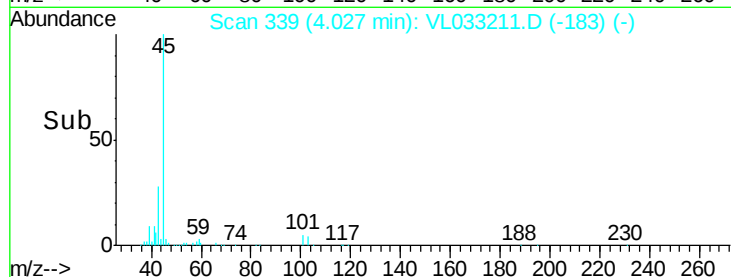
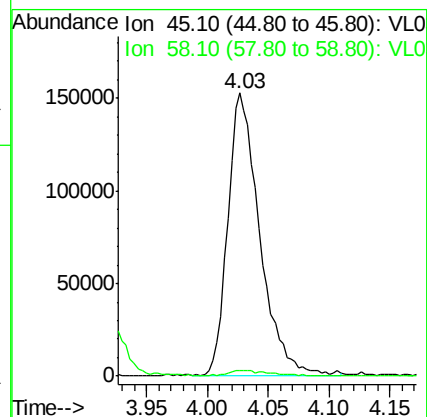
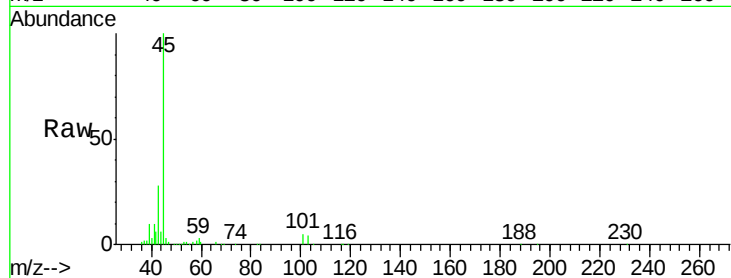
ZONE-E

Tot Ion: 45 Resp: 283495

Ion Ratio Lower Upper

45 100

58 0.0 1.5 2.3#



#20

Methylene Chloride

Concen: 2.033 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL033211.D

Acq: 14 Feb 2019 23:34

Tgt Ion: 84 Resp: 86442

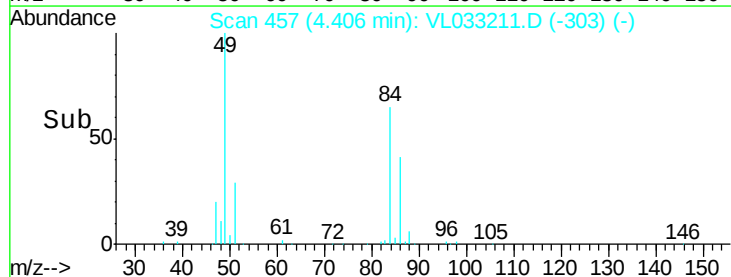
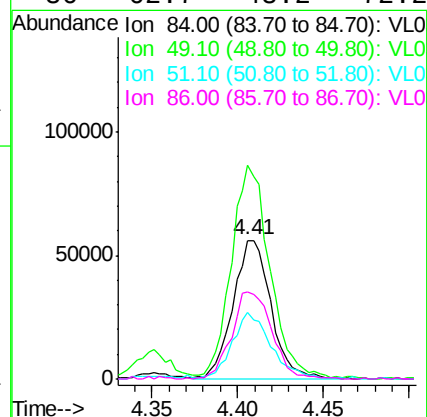
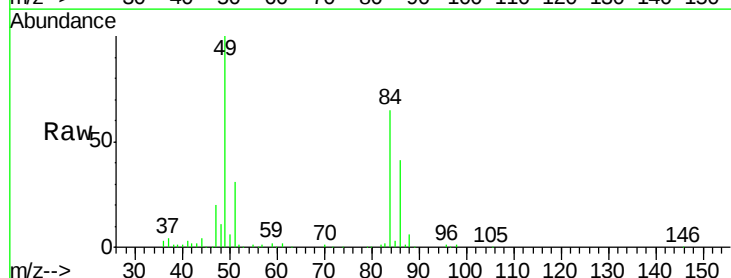
Ion Ratio Lower Upper

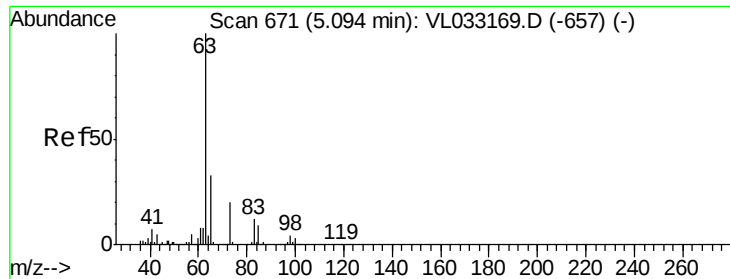
84 100

49 153.2 115.8 173.8

51 47.8 33.0 49.6

86 62.7 48.2 72.2





#24

1,1-Dichloroethane

Concen: 79.032 ppbv

RT: 5.09 min Scan# 670

Delta R.T. -0.00 min

Lab File: VL033211.D

Acq: 14 Feb 2019 23:34

Instrument :

MSVOA_L

ClientSampleId :

ZONE-E

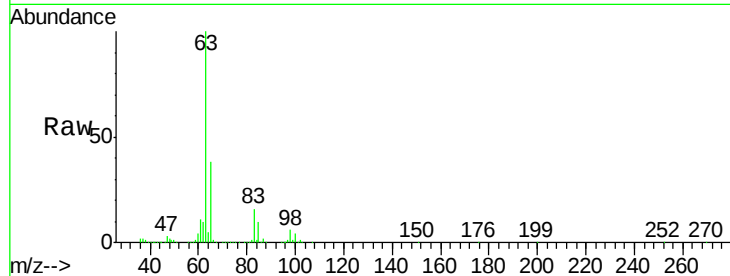
Tot Ion: 63 Resp:10354517

Ion Ratio Lower Upper

63 100

98 5.6 2.1 6.5

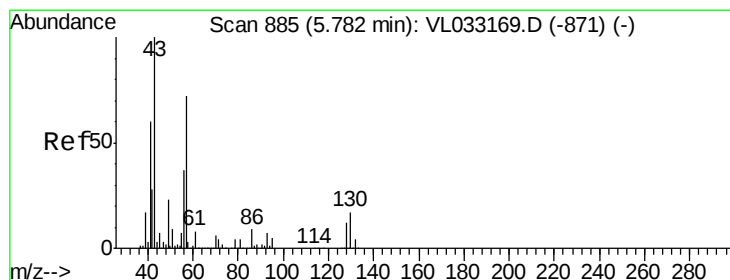
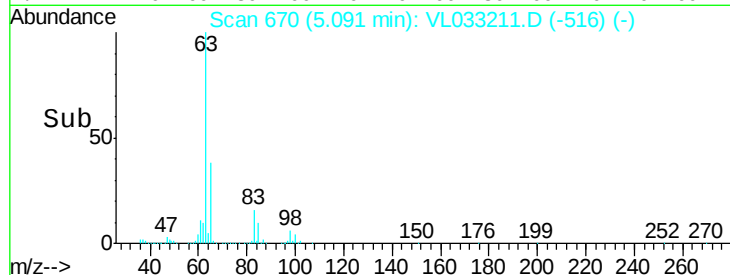
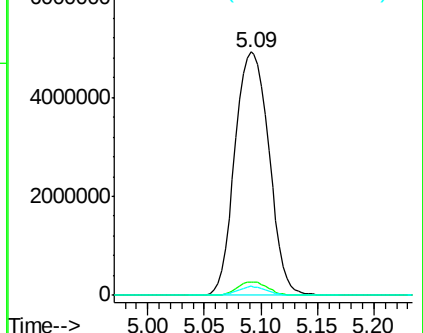
100 3.7 1.4 4.2



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



#26

Hexane

Concen: 0.661 ppbv

RT: 5.78 min Scan# 884

Delta R.T. -0.00 min

Lab File: VL033211.D

Acq: 14 Feb 2019 23:34

Tgt Ion: 57 Resp: 74617

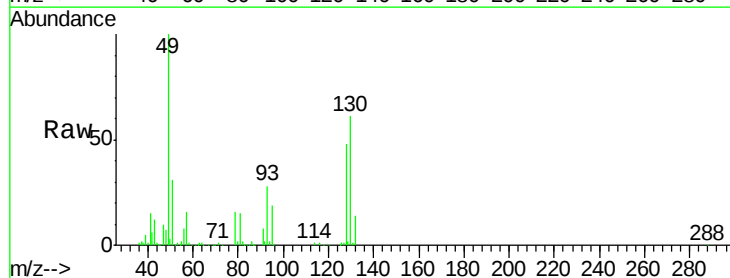
Ion Ratio Lower Upper

57 100

41 98.5 69.4 104.2

43 78.8 176.7 265.1#

56 58.6 41.4 62.0

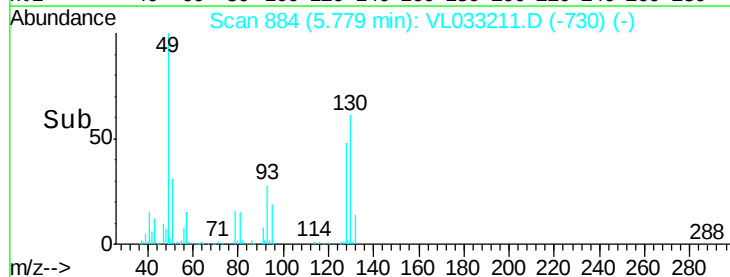
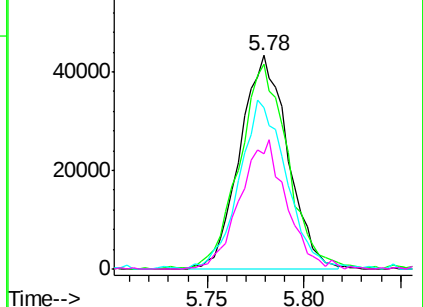


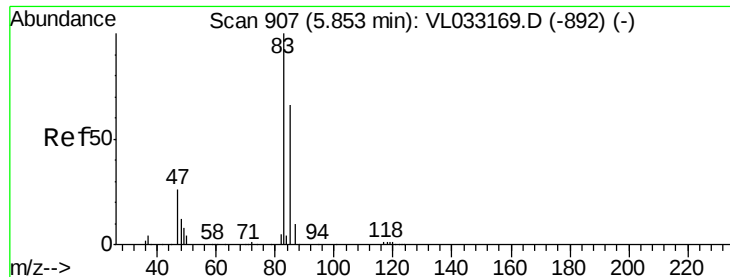
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

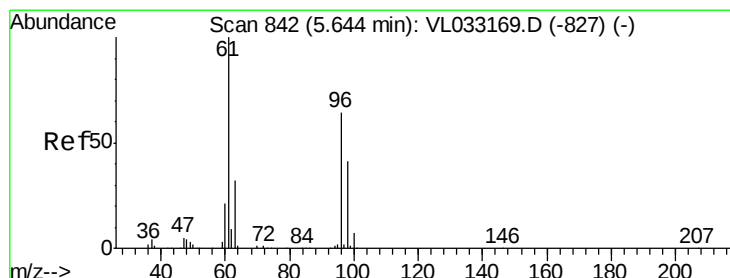
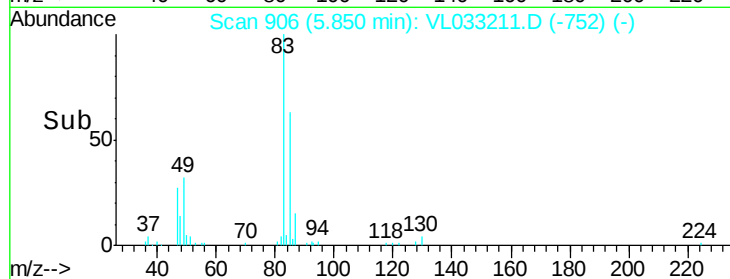
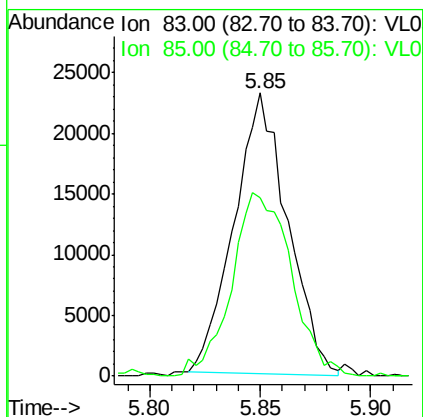
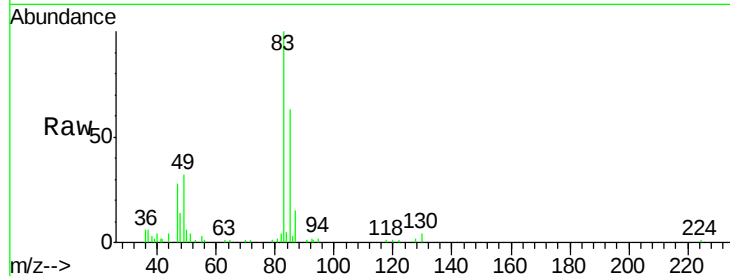




#29
Chloroform
Concen: 0.226 ppbv
RT: 5.85 min Scan# 906
Delta R.T. -0.00 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

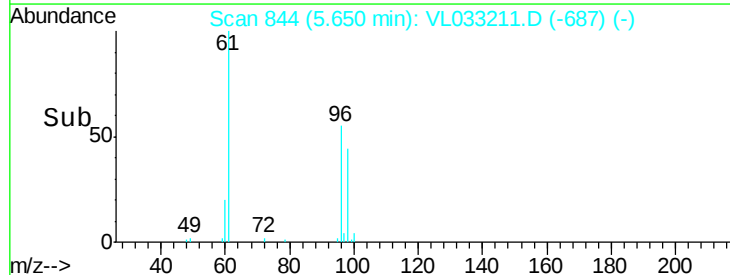
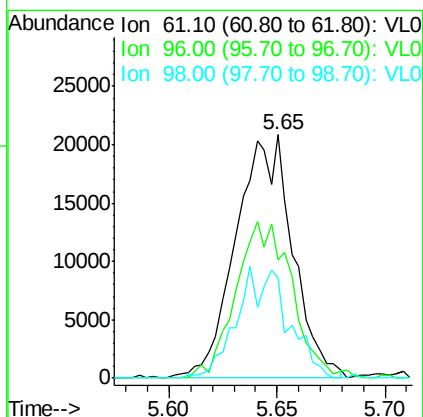
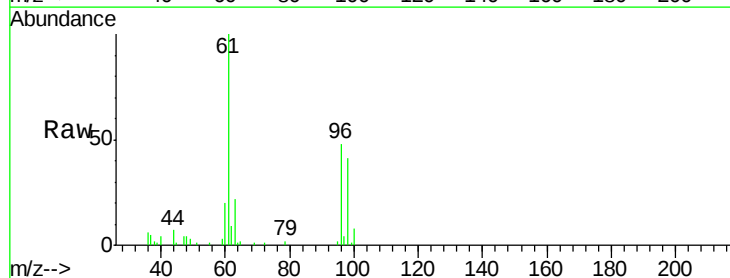
Instrument :
MSVOA_L
ClientSampleId :
ZONE-E

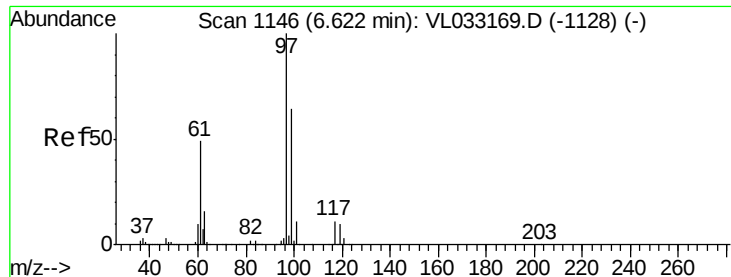
Tot Ion: 83 Resp: 39012
Ion Ratio Lower Upper
83 100
85 60.7 52.6 78.8



#31
cis-1,2-Dichloroethene
Concen: 0.334 ppbv m
RT: 5.65 min Scan# 844
Delta R.T. 0.01 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 61 Resp: 37762
Ion Ratio Lower Upper
61 100
96 48.3 51.2 76.8#
98 41.3 32.8 49.2





#32

1,1,1-Trichloroethane

Concen: 126.794 ppbv

RT: 6.63 min Scan# 1149

Delta R.T. 0.01 min

Lab File: VL033211.D

Acq: 14 Feb 2019 23:34

Instrument :

MSVOA_L

ClientSampleId :

ZONE-E

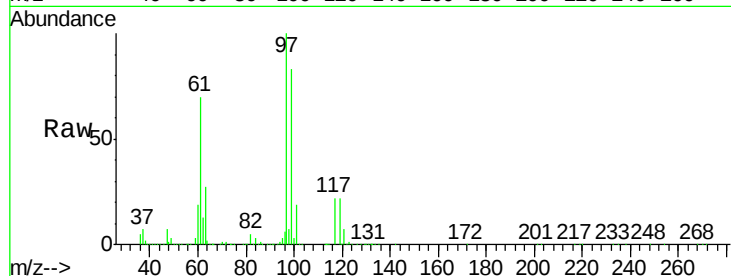
Tot Ion: 97 Resp: 24135639

Ion Ratio Lower Upper

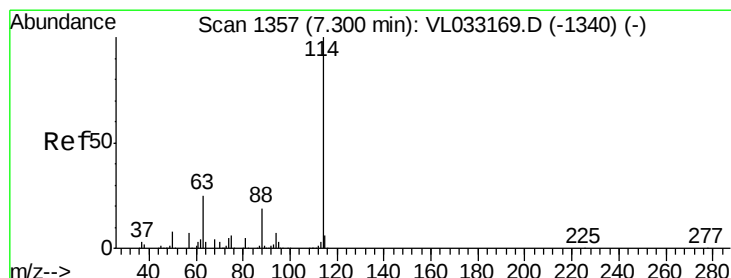
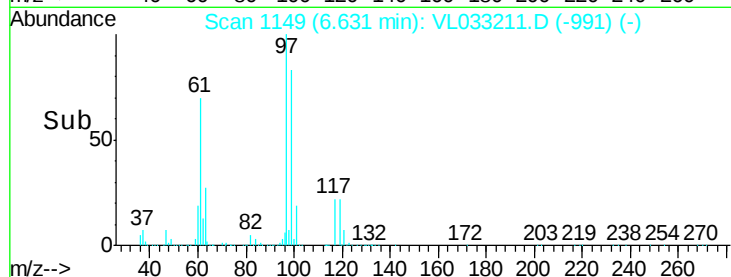
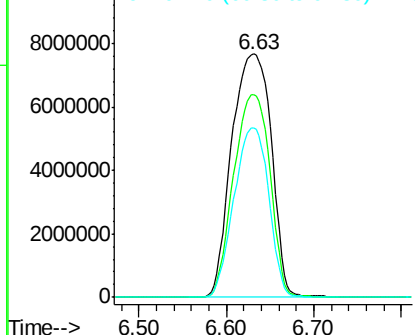
97 100

99 76.7 51.4 77.2

61 61.5 38.9 58.3#



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.30 min Scan# 1356

Delta R.T. -0.00 min

Lab File: VL033211.D

Acq: 14 Feb 2019 23:34

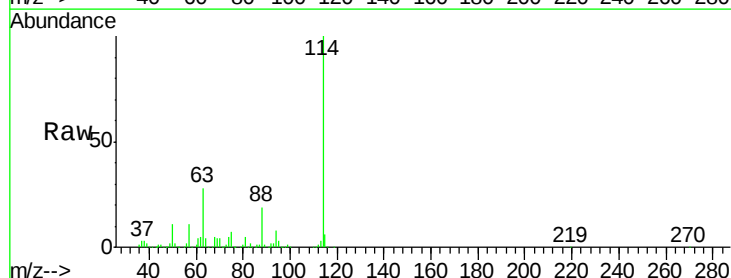
Tgt Ion: 114 Resp: 2100110

Ion Ratio Lower Upper

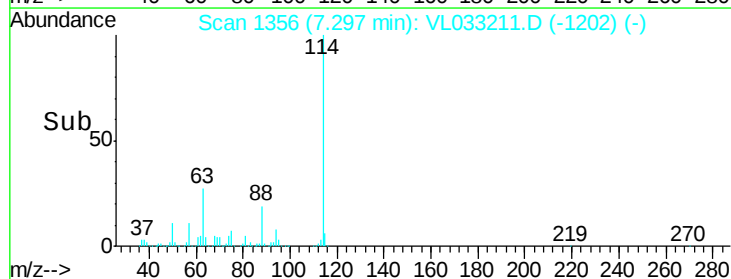
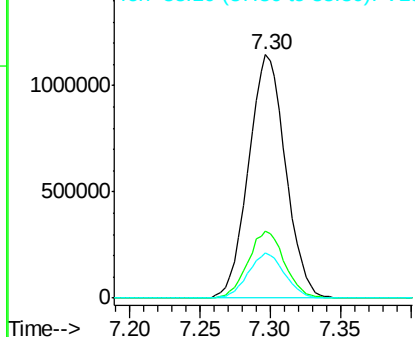
114 100

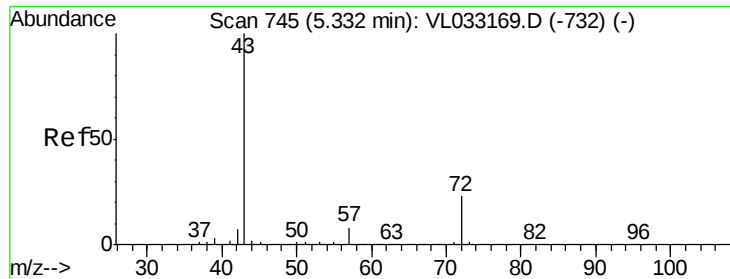
63 27.5 20.8 31.2

88 18.4 14.6 22.0



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 0.282 ppbv m

RT: 5.35 min Scan# 750

Delta R.T. 0.02 min

Lab File: VL033211.D

Acq: 14 Feb 2019 23:34

Instrument :

MSVOA_L

ClientSampleId :

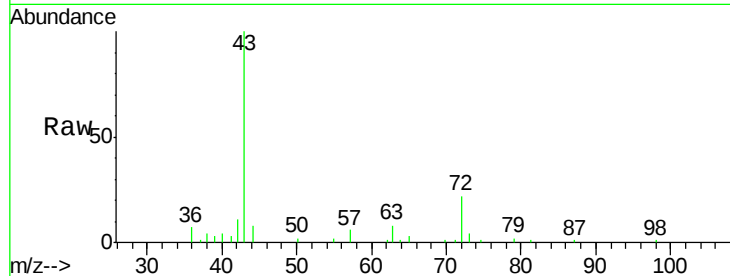
ZONE-E

Tot Ion: 43 Resp: 37623

Ion Ratio Lower Upper

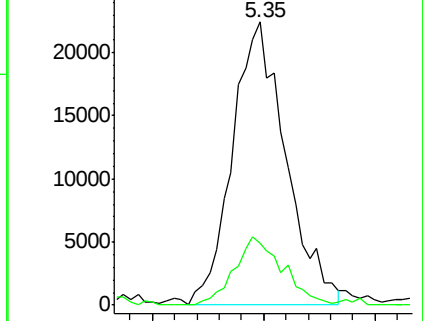
43 100

72 22.5 17.8 26.6

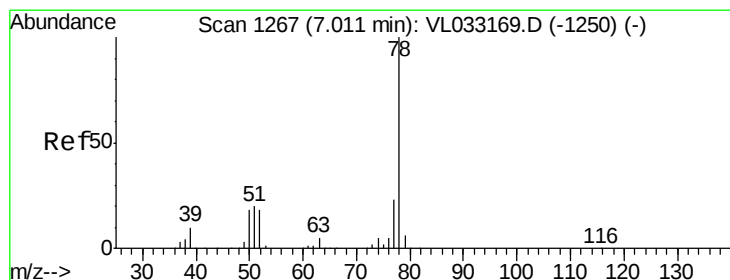
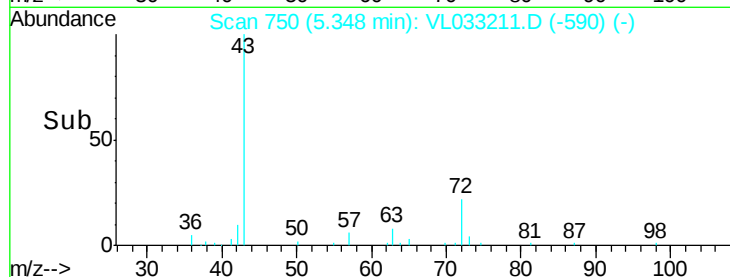


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



Time-->



#36

Benzene

Concen: 0.183 ppbv

RT: 7.02 min Scan# 1269

Delta R.T. 0.01 min

Lab File: VL033211.D

Acq: 14 Feb 2019 23:34

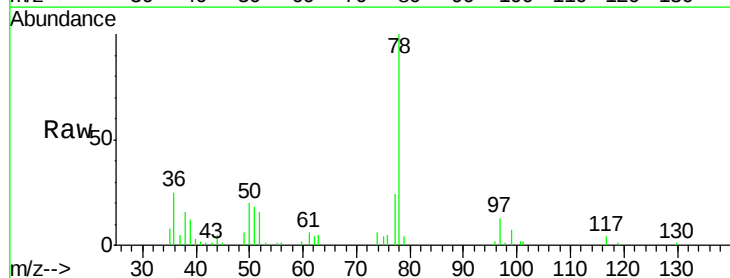
Tgt Ion: 78 Resp: 39001

Ion Ratio Lower Upper

78 100

77 23.7 18.0 27.0

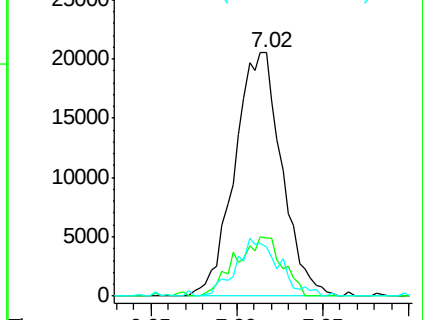
50 20.0 14.2 21.2



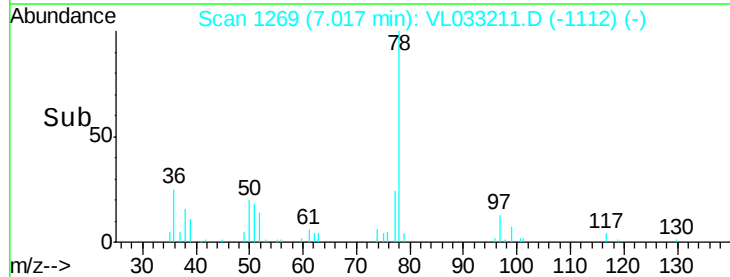
Abundance Ion 78.10 (77.80 to 78.80): VL0

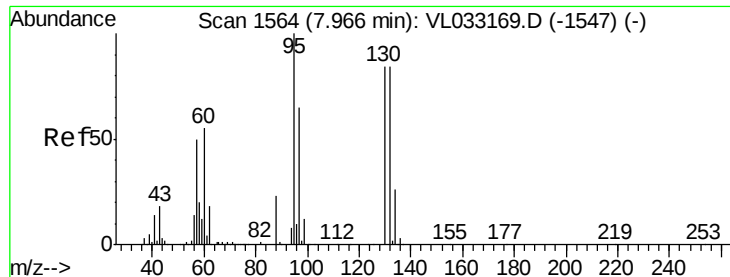
Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



Time-->

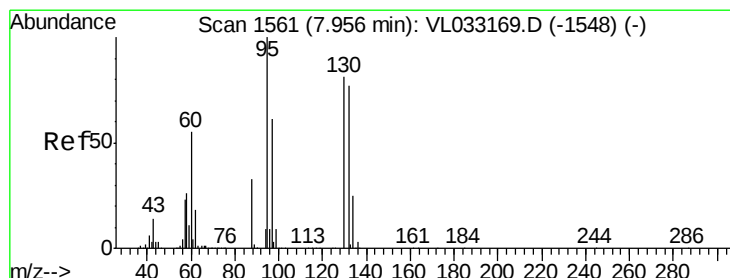
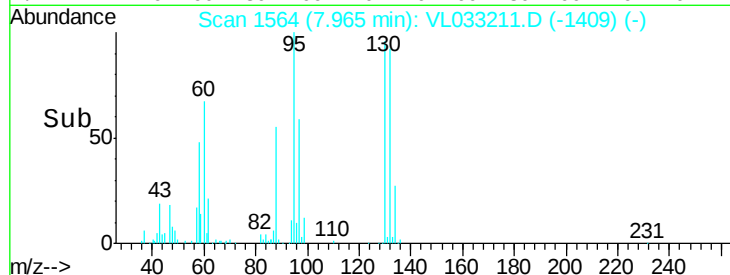
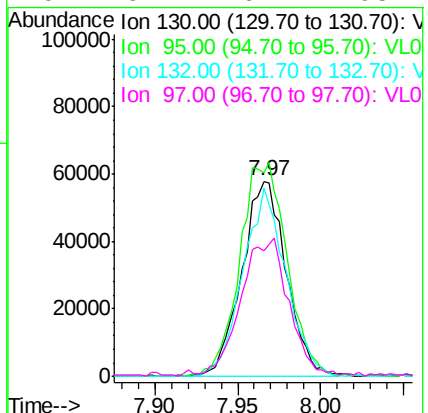
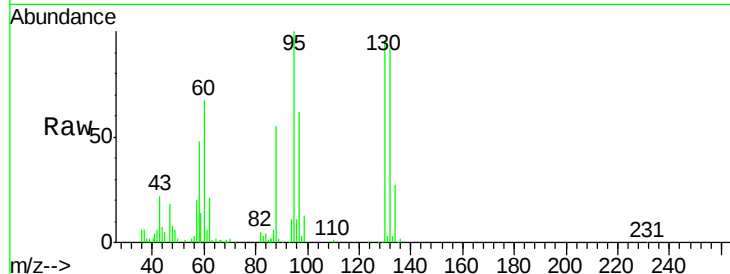




#38
 Trichloroethene
 Concen: 1.184 ppbv
 RT: 7.97 min Scan# 1564
 Delta R.T. -0.00 min
 Lab File: VL033211.D
 Acq: 14 Feb 2019 23:34

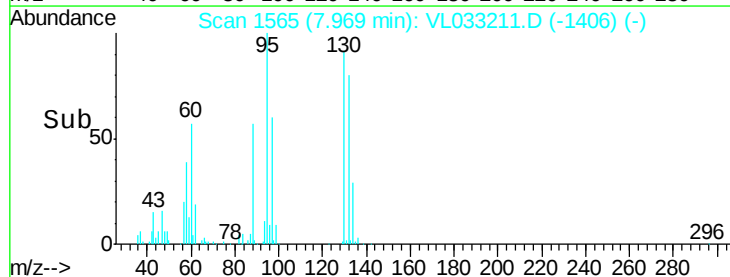
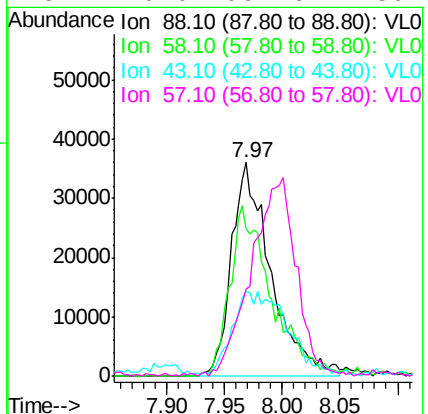
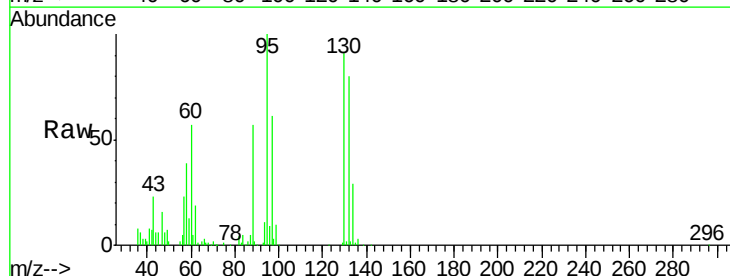
Instrument :
 MSVOA_L
 ClientSampleId :
 ZONE-E

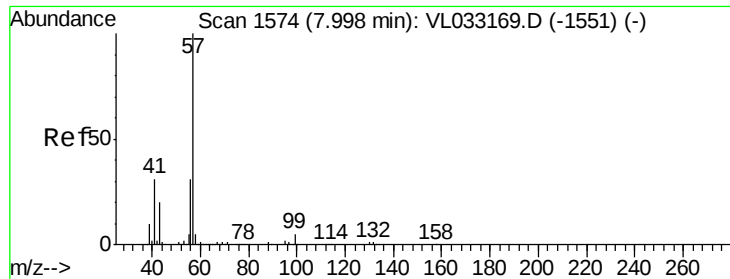
Tot Ion:130 Resp: 107899
 Ion Ratio Lower Upper
 130 100
 95 101.0 95.5 143.3
 132 93.4 80.0 120.0
 97 61.4 62.2 93.2#



#40
 1,4-Dioxane
 Concen: 2.802 ppbv m
 RT: 7.97 min Scan# 1565
 Delta R.T. 0.01 min
 Lab File: VL033211.D
 Acq: 14 Feb 2019 23:34

Tgt Ion: 88 Resp: 85604
 Ion Ratio Lower Upper
 88 100
 58 0.0 106.6 160.0#
 43 0.0 220.2 330.2#
 57 0.0 992.6 1489.0#





#44

2,2,4-Trimethylpentane

Concen: 0.250 ppbv

RT: 8.00 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VL033211.D

Acq: 14 Feb 2019 23:34

Instrument :

MSVOA_L

ClientSampleId :

ZONE-E

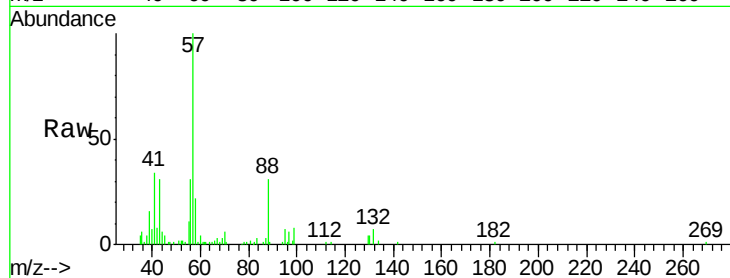
Tot Ion: 57 Resp: 90037

Ion Ratio Lower Upper

57 100

41 35.6 25.1 37.7

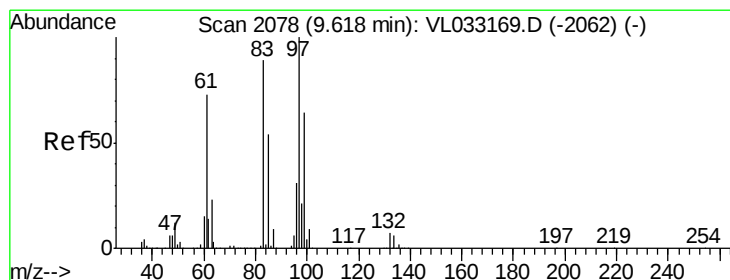
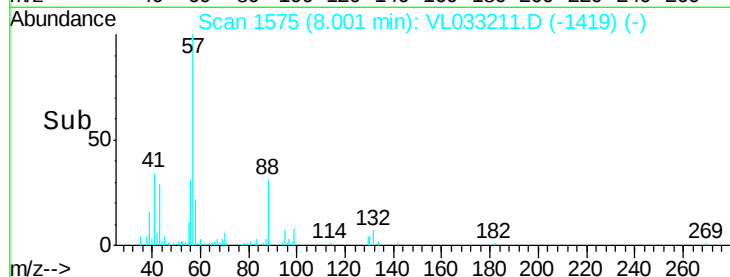
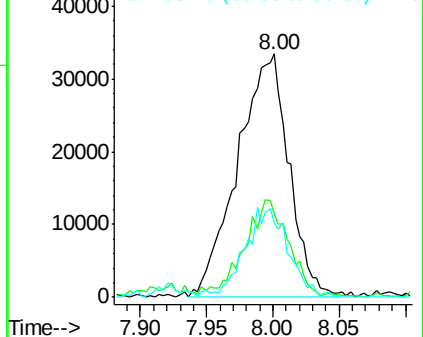
56 31.1 24.5 36.7



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#47

1,1,2-Trichloroethane

Concen: 0.426 ppbv m

RT: 9.62 min Scan# 2079

Delta R.T. 0.00 min

Lab File: VL033211.D

Acq: 14 Feb 2019 23:34

Tgt Ion: 97 Resp: 37181

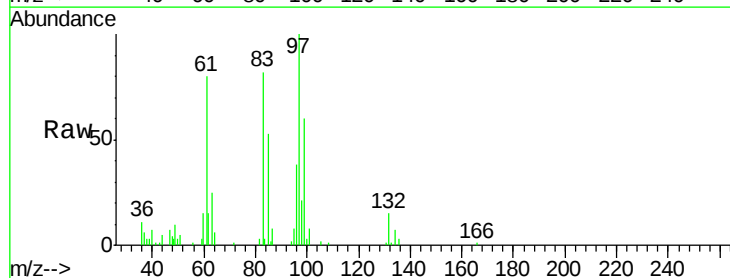
Ion Ratio Lower Upper

97 100

83 81.6 71.4 107.2

85 52.8 43.5 65.3

99 60.4 51.4 77.0

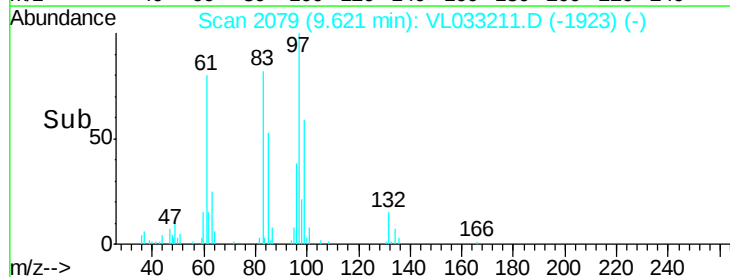
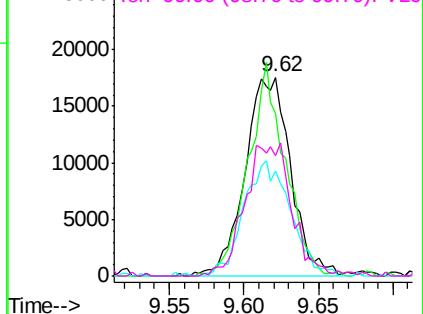


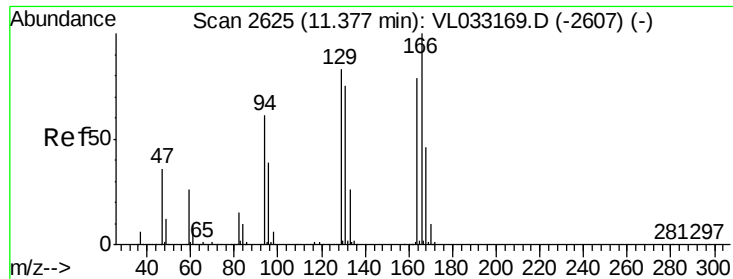
Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

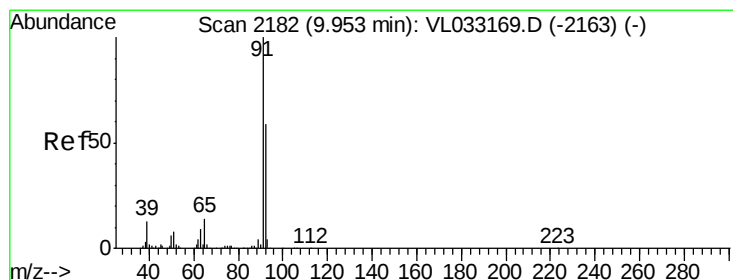
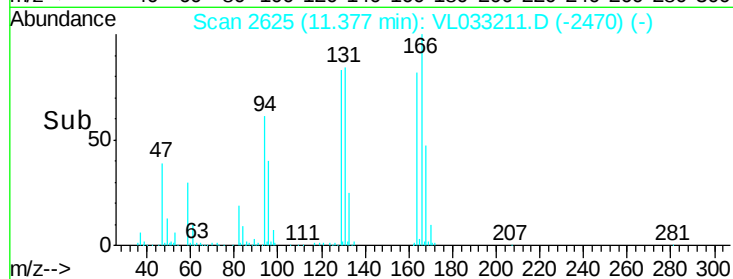
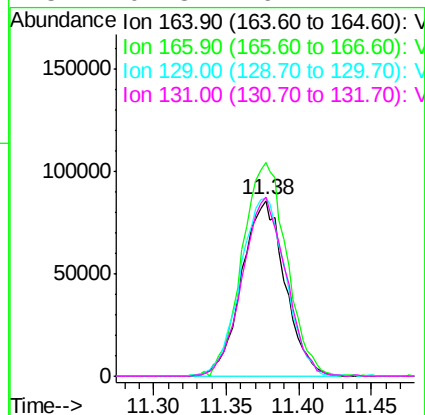
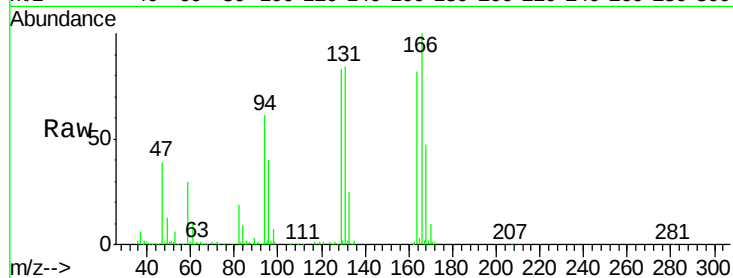




#52
Tetrachloroethene
Concen: 2.182 ppbv
RT: 11.38 min Scan# 2625
Delta R.T. -0.00 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

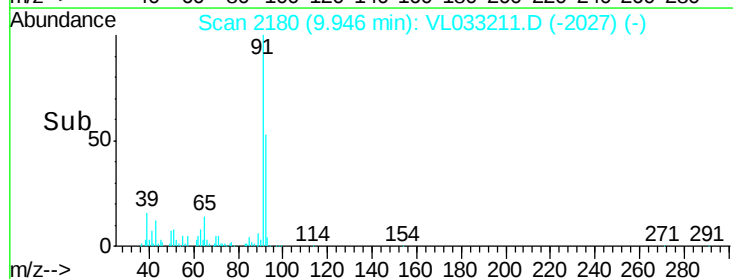
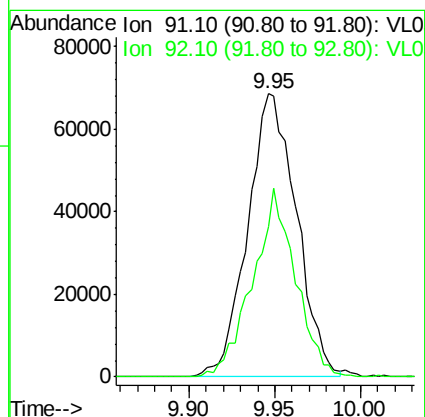
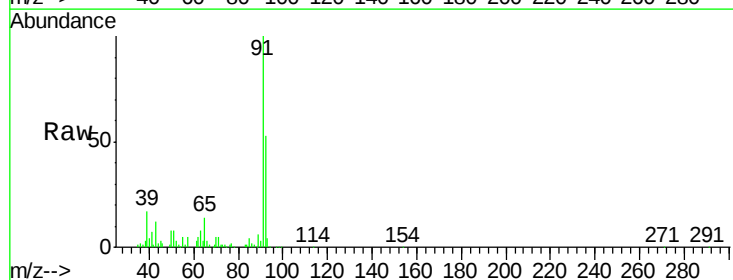
Instrument :
MSVOA_L
ClientSampleId :
ZONE-E

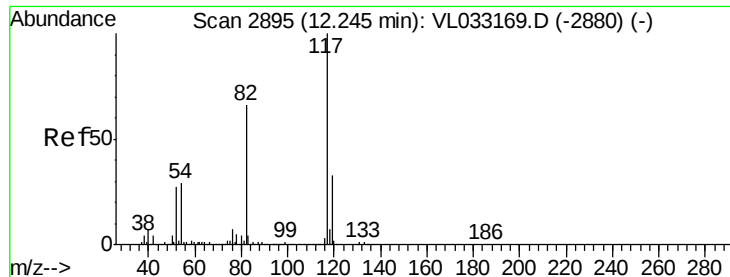
Tot Ion:164 Resp: 178458
Ion Ratio Lower Upper
164 100
166 121.3 100.9 151.3
129 102.6 83.9 125.9
131 104.8 76.2 114.2



#53
Toluene
Concen: 0.534 ppbv
RT: 9.95 min Scan# 2180
Delta R.T. -0.01 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 91 Resp: 134629
Ion Ratio Lower Upper
91 100
92 58.6 48.0 72.0

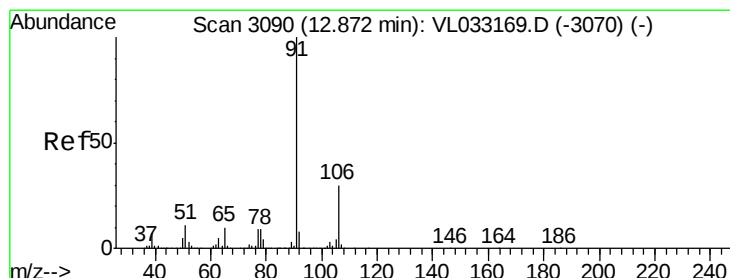
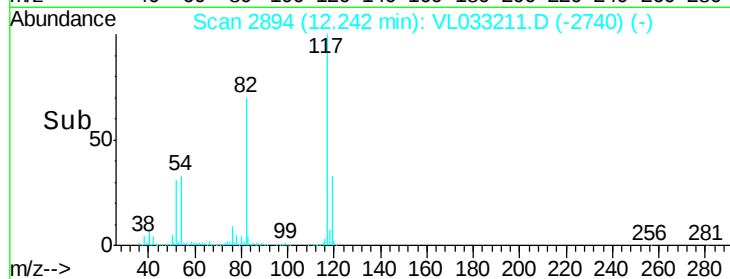
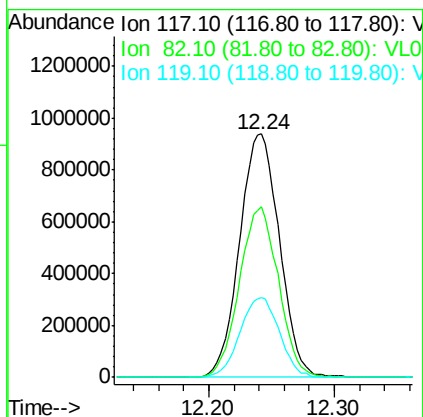
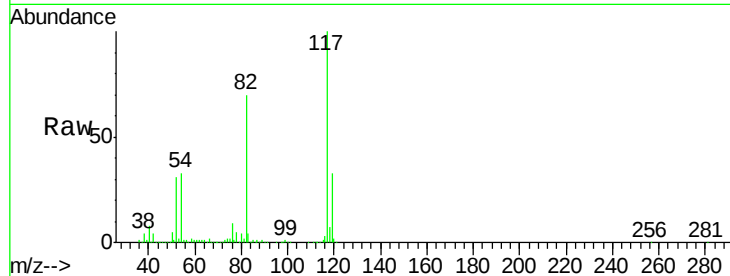




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

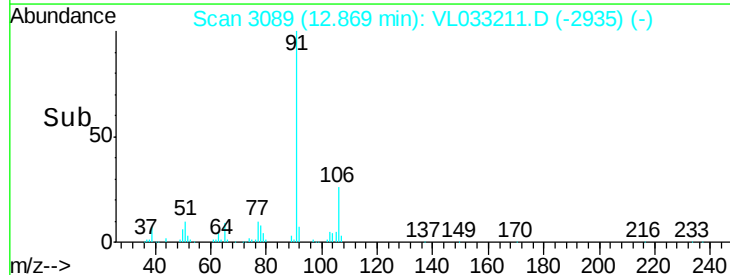
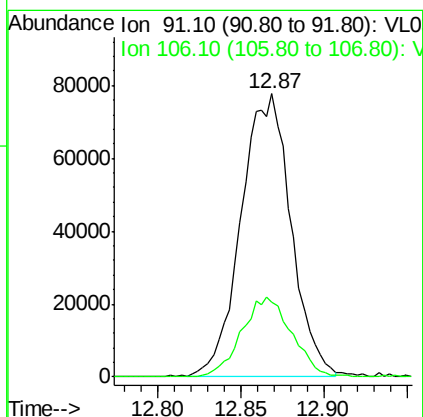
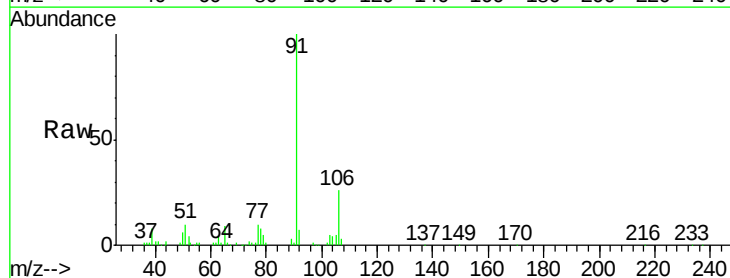
Instrument :
MSVOA_L
ClientSampleId :
ZONE-E

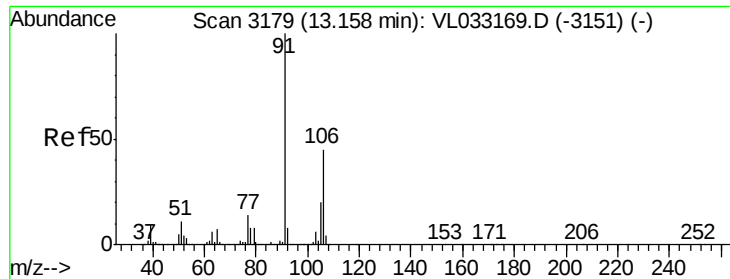
Tot Ion:117 Resp: 2074311
Ion Ratio Lower Upper
117 100
82 68.7 49.5 74.3
119 32.7 24.4 36.6



#58
Ethyl Benzene
Concen: 0.483 ppbv m
RT: 12.87 min Scan# 3089
Delta R.T. -0.00 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 91 Resp: 162218
Ion Ratio Lower Upper
91 100
106 26.3 23.8 35.8

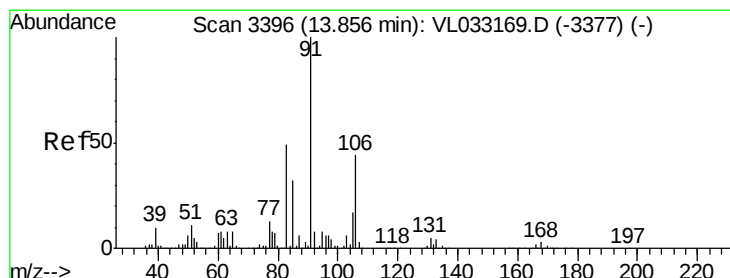
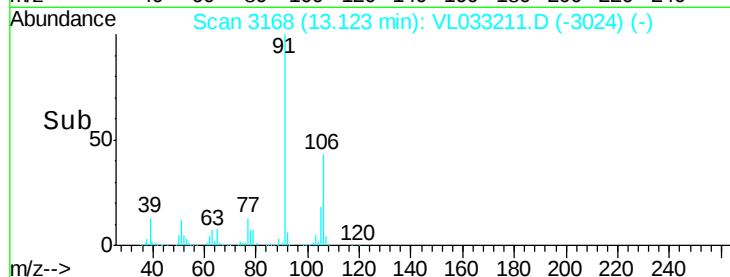
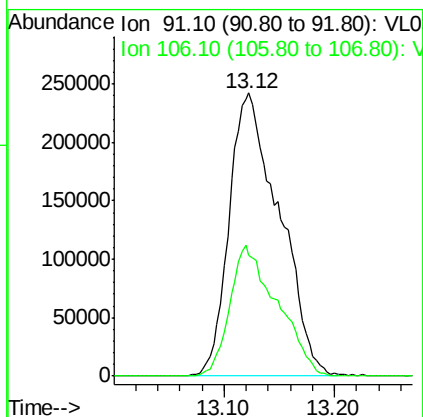
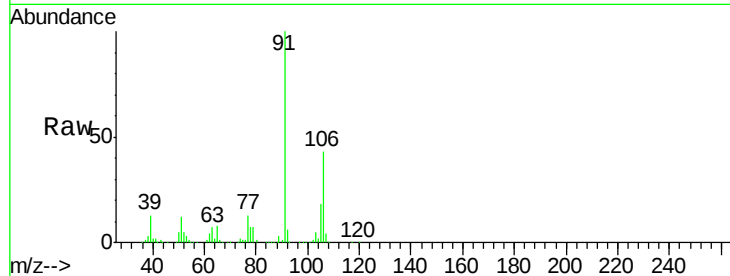




#59
m/p-Xylene
Concen: 2.704 ppbv
RT: 13.12 min Scan# 3168
Delta R.T. -0.04 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

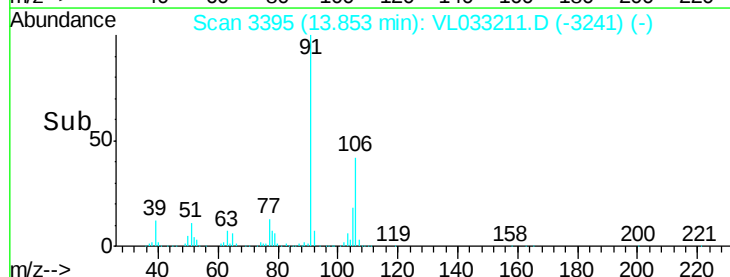
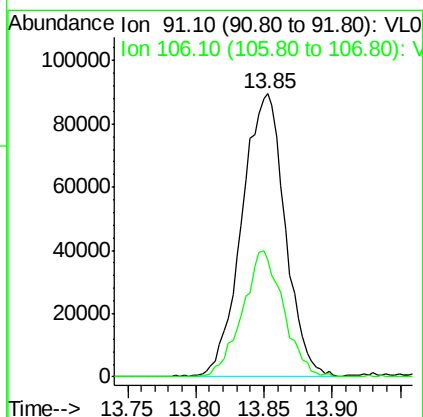
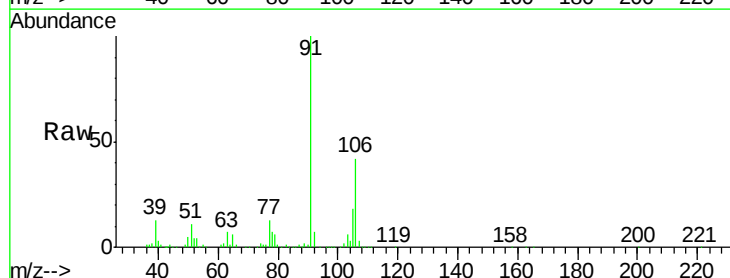
Instrument :
MSVOA_L
ClientSampleId :
ZONE-E

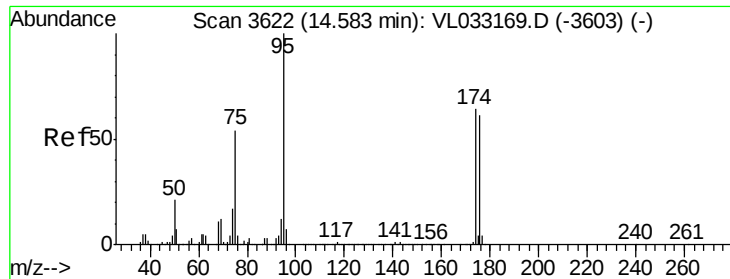
Tot Ion: 91 Resp: 757562
Ion Ratio Lower Upper
91 100
106 44.1 0.0 0.0#



#60
o-Xylene
Concen: 0.719 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. -0.00 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 91 Resp: 195977
Ion Ratio Lower Upper
91 100
106 42.5 21.8 65.3

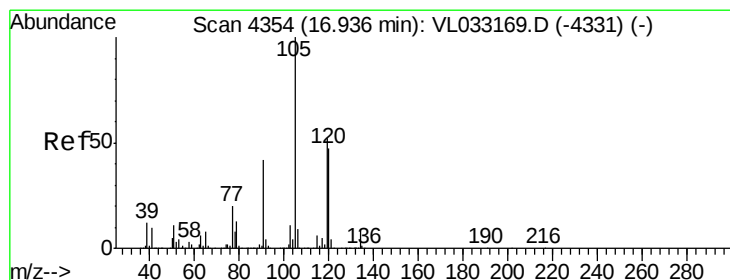
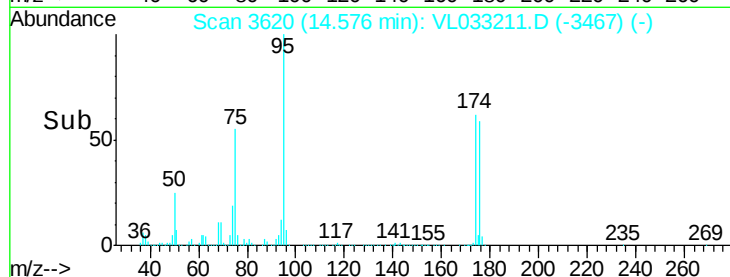
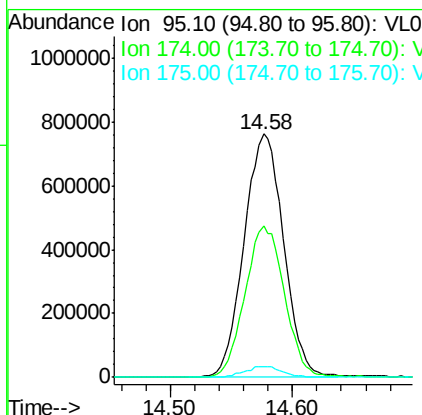
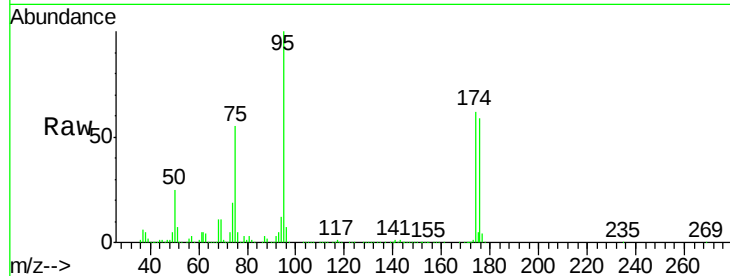




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.671 ppbv
 RT: 14.58 min Scan# 3620
 Delta R.T. -0.01 min
 Lab File: VL033211.D
 Acq: 14 Feb 2019 23:34

Instrument :
 MSVOA_L
 ClientSampleId :
 ZONE-E

Tot Ion: 95 Resp: 1704699
 Ion Ratio Lower Upper
 95 100
 174 62.5 51.2 76.8
 175 4.5 3.8 5.6



#74
 1,2,4-Trimethylbenzene
 Concen: 0.351 ppbv m
 RT: 16.92 min Scan# 4349
 Delta R.T. -0.02 min
 Lab File: VL033211.D
 Acq: 14 Feb 2019 23:34

Tgt Ion: 105 Resp: 109404
 Ion Ratio Lower Upper
 105 100
 120 34.8 37.9 56.9#
 91 18.2 34.0 51.0#
 77 14.1 15.7 23.5#

