

Data File : VL032519.D
Acq On : 24 Sep 2018 19:40
Operator : SY/AP
Sample : VSTDIC0.03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Quant Time: Sep 24 21:02:58 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 24 18:32:13 2018
QLast Update : Mon Sep 24 18:32:13 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1525295	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	3436942	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	3426390	10.00	ppbv	-0.03

System Monitoring Compounds

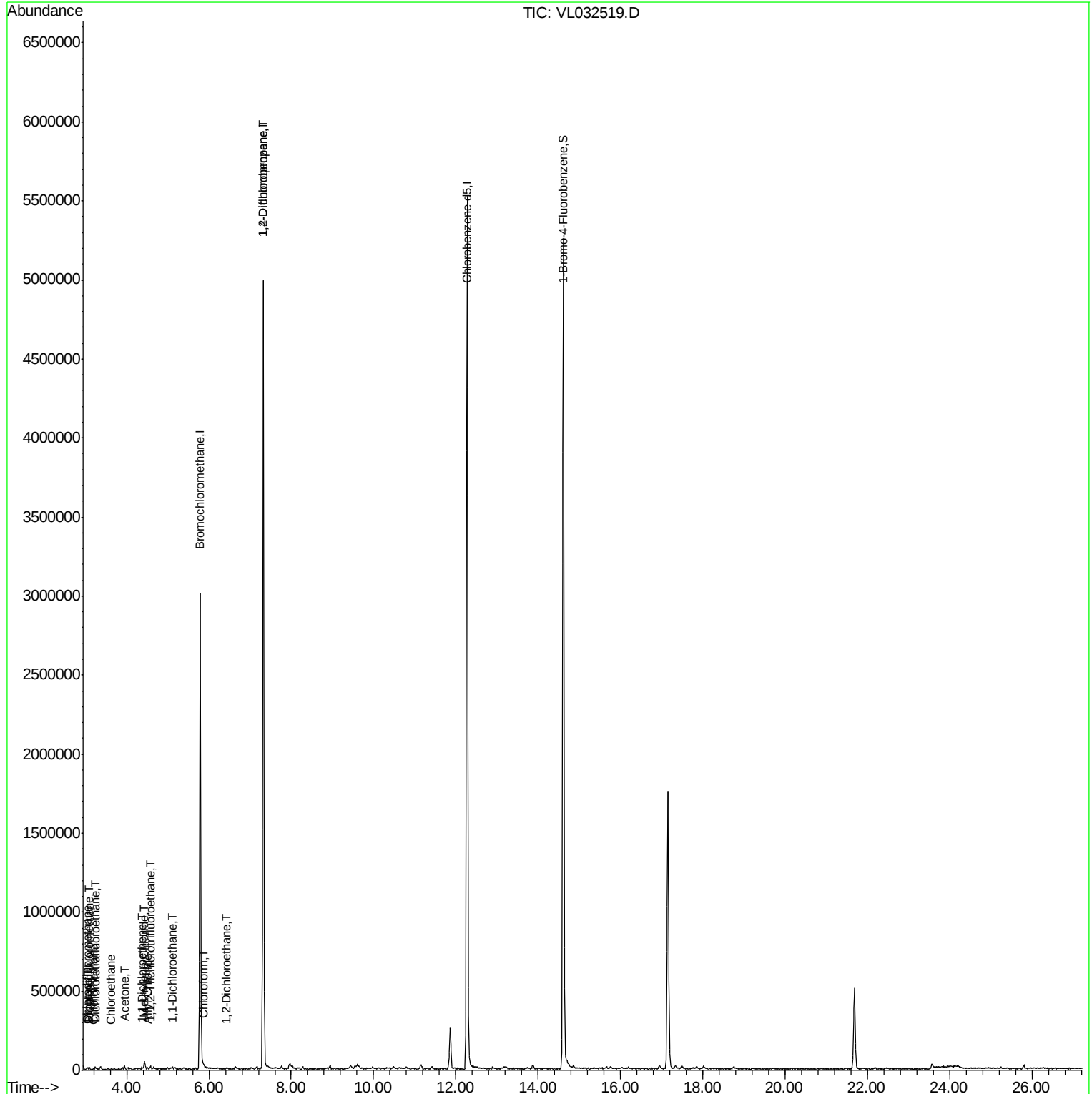
68) 1-Bromo-4-Fluorobenzene	14.61	95	2588688	10.18	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.80%

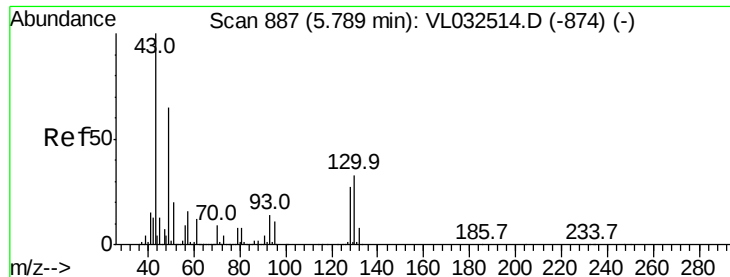
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.09	85	8718	0.045	ppbv	96
3) Chlorodifluoromethane	3.03	51	6629	0.048	ppbv	94
4) Chloromethane	3.19	50	3004	0.036	ppbv	95
7) Chloroethane	3.62	64	873	0.031	ppbv #	80
8) Dichlorotetrafluoroethane	3.23	85	6972	0.040	ppbv	95
9) Propene	3.06	41	1861	0.033	ppbv #	52
12) 1,1,2-Trichlorotrifluoroet	4.57	101	4420	0.037	ppbv #	17
15) Acetone	3.95	43	26270	0.191	ppbv	97
18) 1,1-Dichloroethene	4.37	96	2006	0.037	ppbv #	41
20) Methylene Chloride	4.43	84	13319	0.254	ppbv #	84
21) Allyl Chloride	4.50	41	3054	0.033	ppbv #	13
24) 1,1-Dichloroethane	5.11	63	6099	0.033	ppbv #	96
29) Chloroform	5.87	83	10232	0.046	ppbv #	72
37) 1,2-Dichloroethane	6.44	62	6511	0.036	ppbv #	95
39) 1,2-Dichloropropane	7.32	63	932690	7.453	ppbv #	25

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

Instrument :
MSVOA_L
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VSTDICC0.03

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 886

Delta R.T. -0.02 min

Lab File: VL032519.D

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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

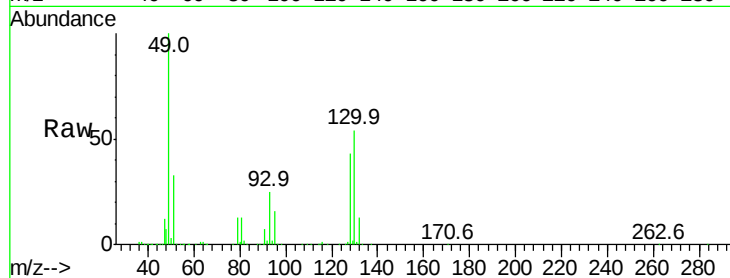
Tgt Ion: 49 Resp: 1525295

Ion Ratio Lower Upper

49 100

128 43.2 20.7 62.1

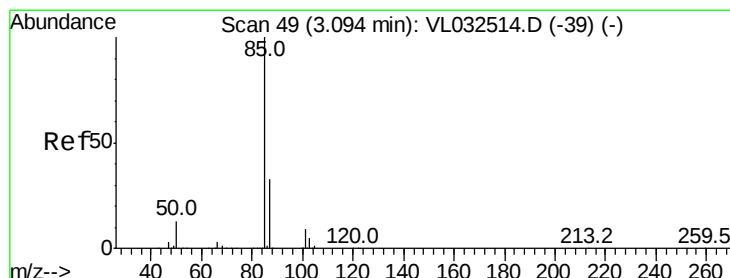
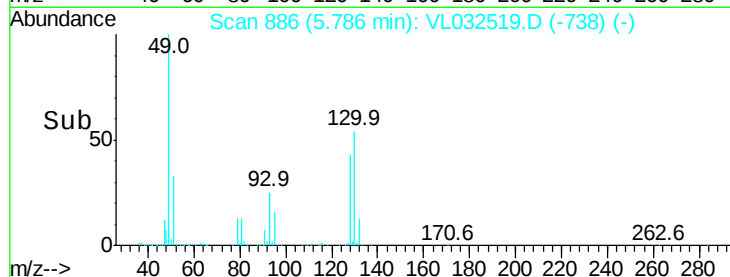
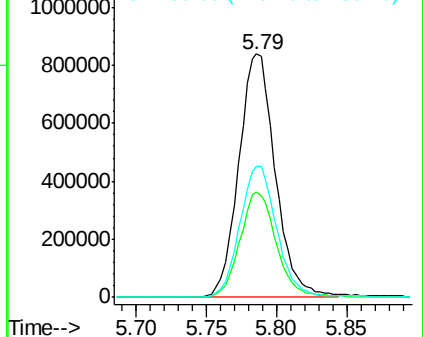
130 55.3 26.6 79.7



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



#2

Dichlorodifluoromethane

Concen: 0.045 ppbv

RT: 3.09 min Scan# 49

Delta R.T. -0.01 min

Lab File: VL032519.D

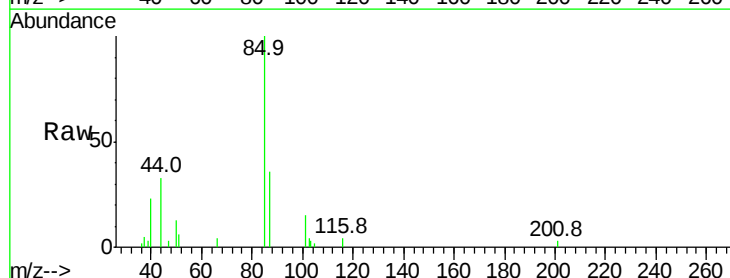
Acq: 24 Sep 2018 19:40

Tgt Ion: 85 Resp: 8718

Ion Ratio Lower Upper

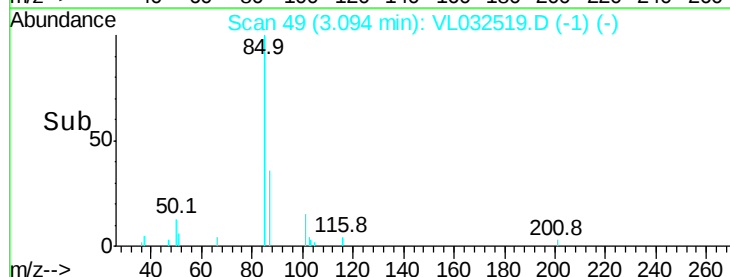
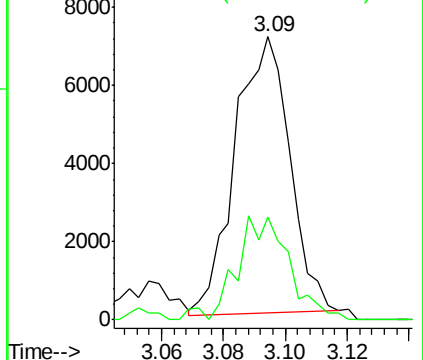
85 100

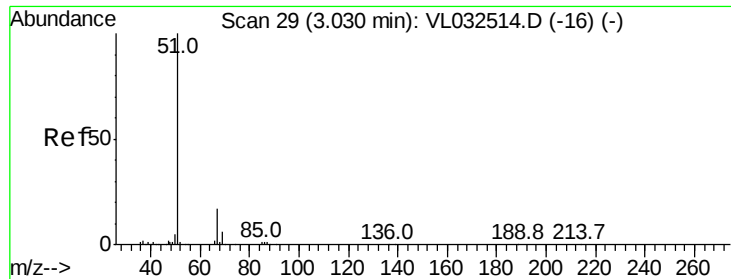
87 35.0 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

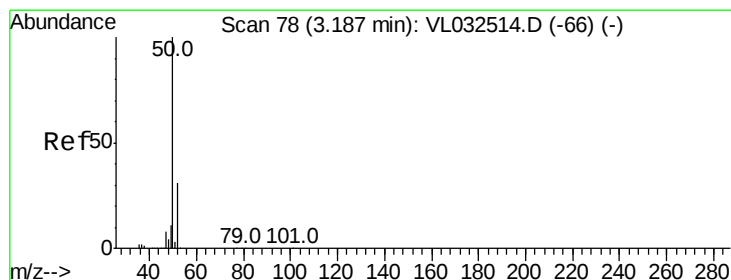
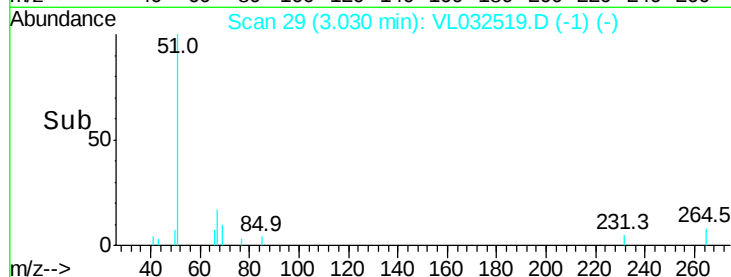
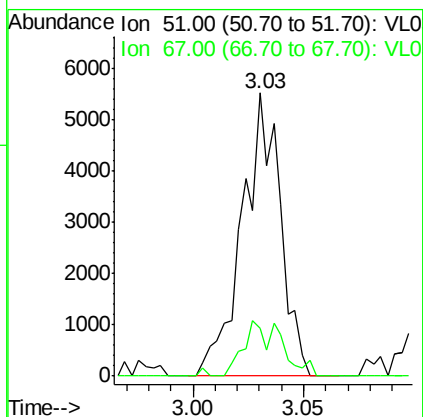
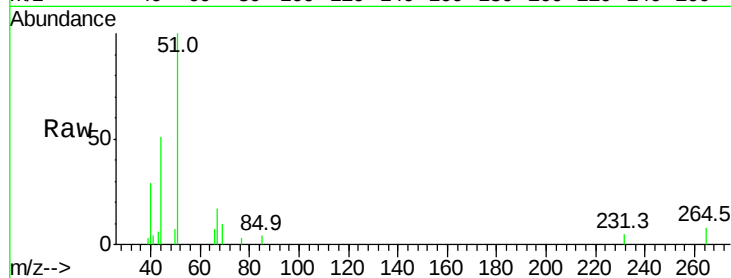




#3
Chlorodifluoromethane
Concen: 0.048 ppbv
RT: 3.03 min Scan# 29
Delta R.T. -0.01 min
Lab File: VL032519.D
Acq: 24 Sep 2018 19:40

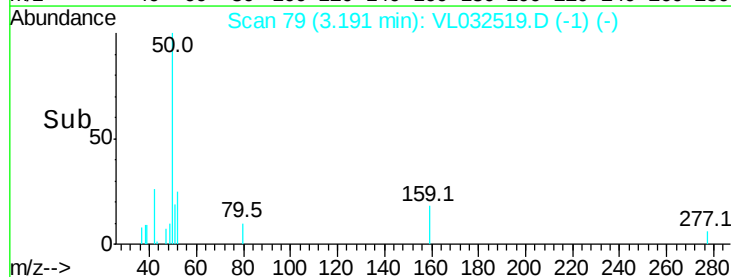
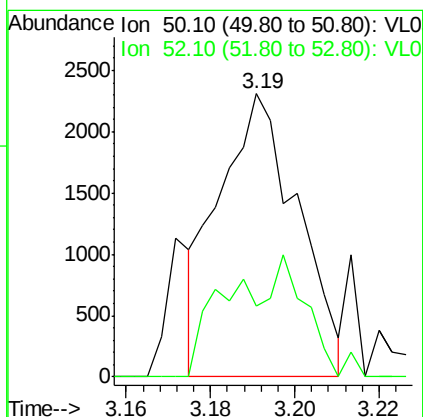
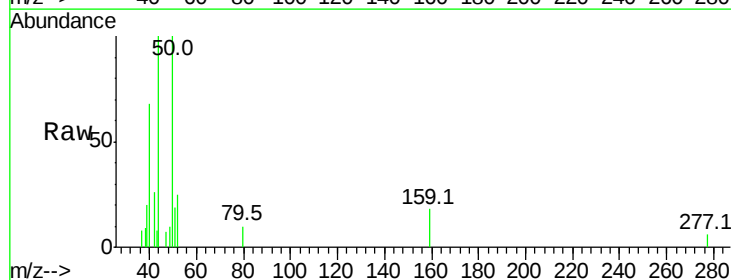
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

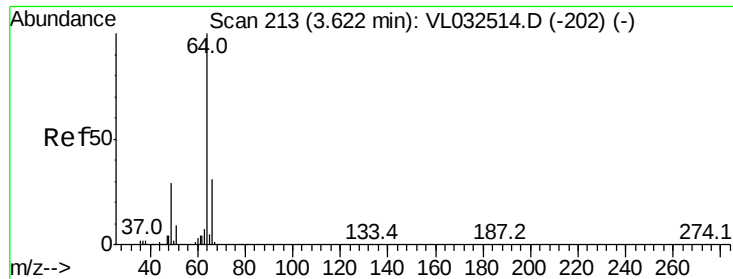
Tgt Ion: 51 Resp: 6629
Ion Ratio Lower Upper
51 100
67 19.8 13.8 20.8



#4
Chloromethane
Concen: 0.036 ppbv
RT: 3.19 min Scan# 79
Delta R.T. -0.01 min
Lab File: VL032519.D
Acq: 24 Sep 2018 19:40

Tgt Ion: 50 Resp: 3004
Ion Ratio Lower Upper
50 100
52 29.1 25.6 38.4





#7

Chloroethane

Concen: 0.031 ppbv

RT: 3.62 min Scan# 212

Delta R.T. -0.02 min

Lab File: VL032519.D

Acq: 24 Sep 2018 19:40

Instrument :

MSVOA_L

ClientSampleId :

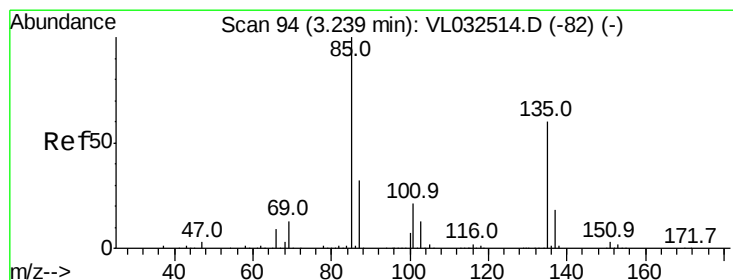
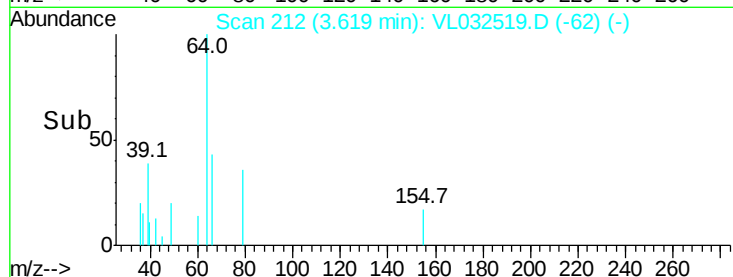
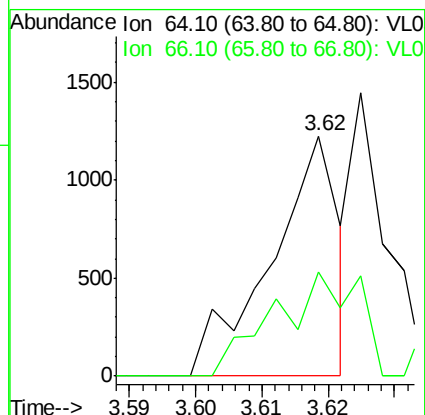
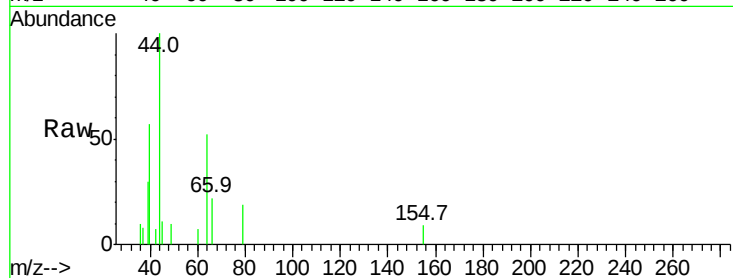
VSTDIC0.03

Tgt Ion: 64 Resp: 873

Ion Ratio Lower Upper

64 100

66 43.2 25.8 38.6#



#8

Dichlorotetrafluoroethane

Concen: 0.040 ppbv

RT: 3.23 min Scan# 92

Delta R.T. -0.02 min

Lab File: VL032519.D

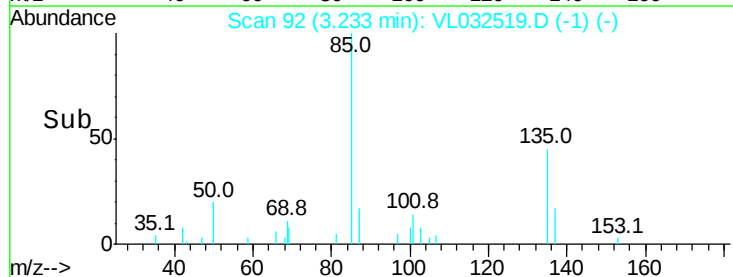
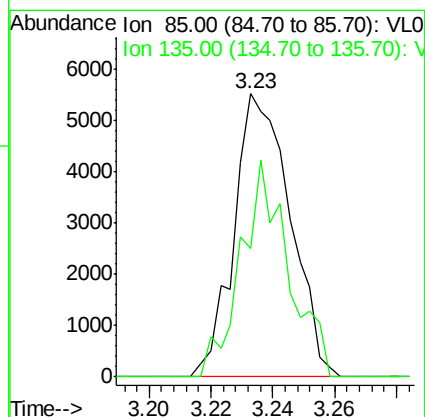
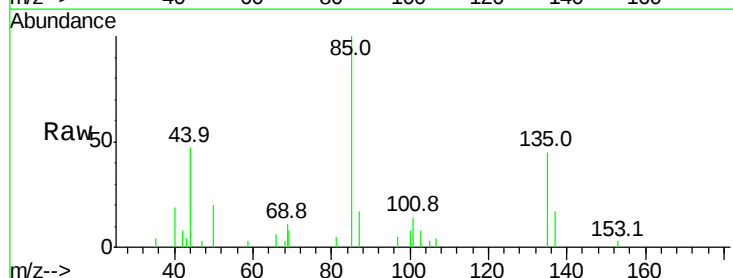
Acq: 24 Sep 2018 19:40

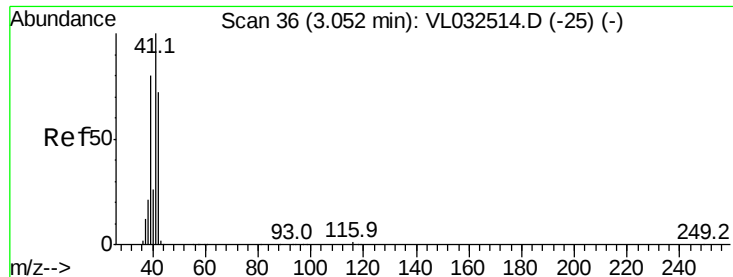
Tgt Ion: 85 Resp: 6972

Ion Ratio Lower Upper

85 100

135 64.6 48.6 72.8





#9

Propene

Concen: 0.033 ppbv

RT: 3.06 min Scan# 39

Delta R.T. -0.01 min

Lab File: VL032519.D

Acq: 24 Sep 2018 19:40

Instrument :

MSVOA_L

ClientSampleId :

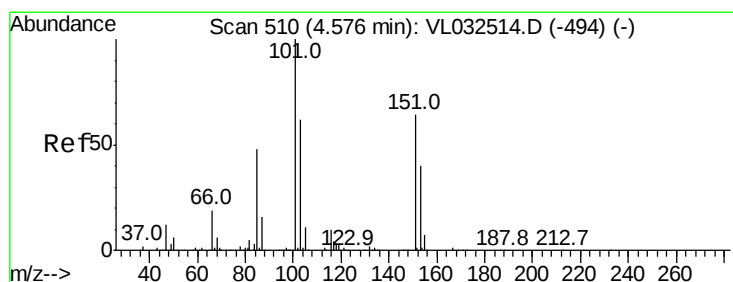
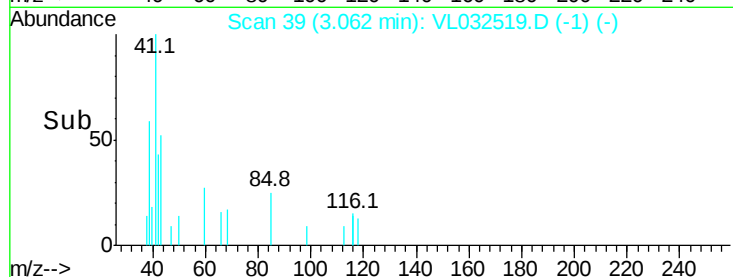
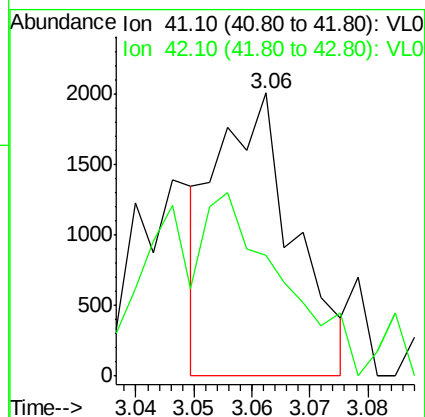
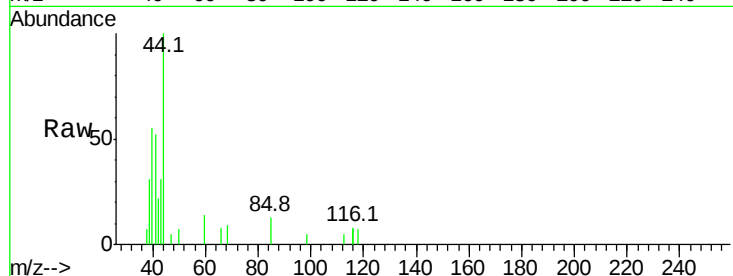
VSTDIC0.03

Tgt Ion: 41 Resp: 1861

Ion Ratio Lower Upper

41 100

42 109.9 56.6 84.8#



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.037 ppbv

RT: 4.57 min Scan# 509

Delta R.T. -0.02 min

Lab File: VL032519.D

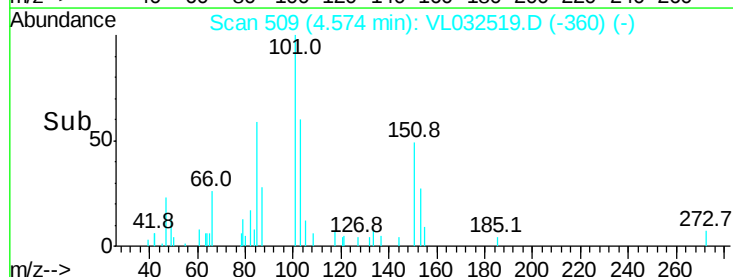
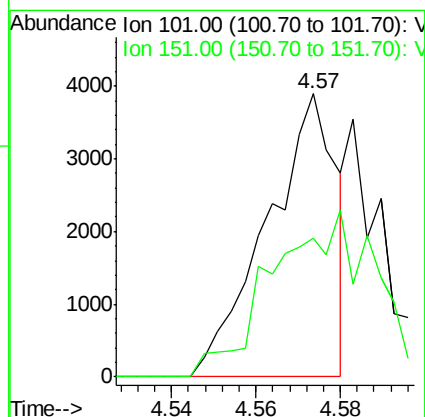
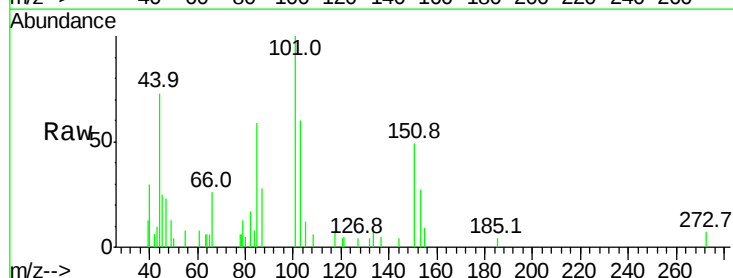
Acq: 24 Sep 2018 19:40

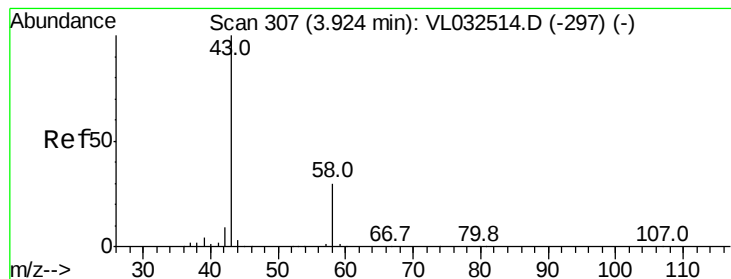
Tgt Ion: 101 Resp: 4420

Ion Ratio Lower Upper

101 100

151 0.0 52.6 78.8#





#15

Acetone

Concen: 0.191 ppbv

RT: 3.95 min Scan# 314

Delta R.T. 0.01 min

Lab File: VL032519.D

Acq: 24 Sep 2018 19:40

Instrument :

MSVOA_L

ClientSampleId :

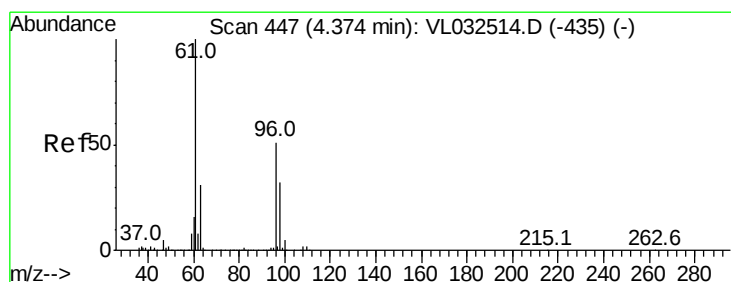
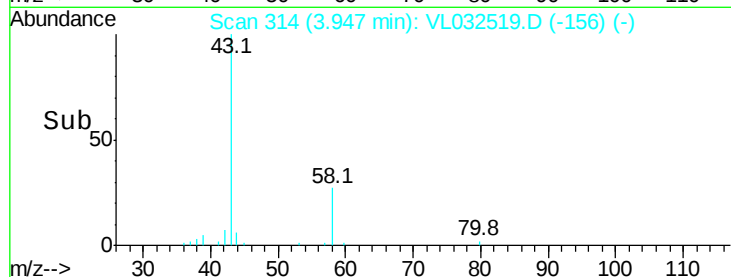
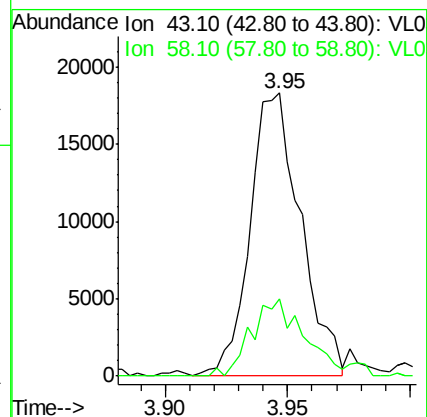
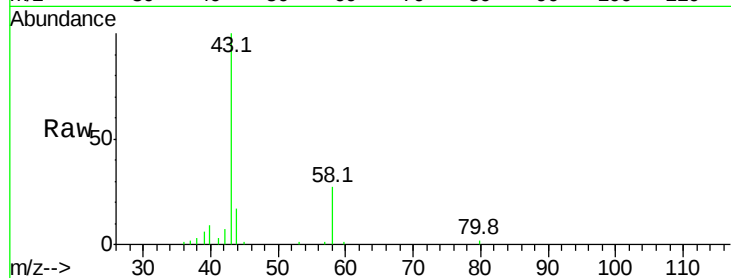
VSTDIC0.03

Tgt Ion: 43 Resp: 26270

Ion Ratio Lower Upper

43 100

58 29.9 22.6 33.8



#18

1,1-Dichloroethene

Concen: 0.037 ppbv

RT: 4.37 min Scan# 446

Delta R.T. -0.02 min

Lab File: VL032519.D

Acq: 24 Sep 2018 19:40

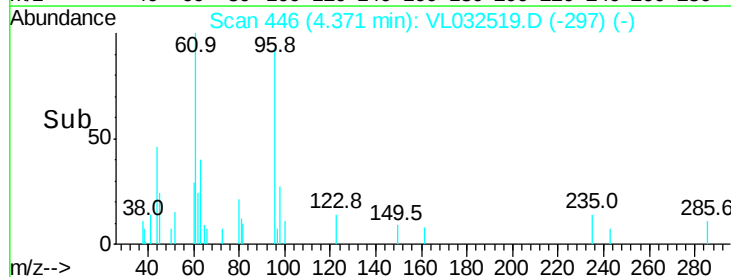
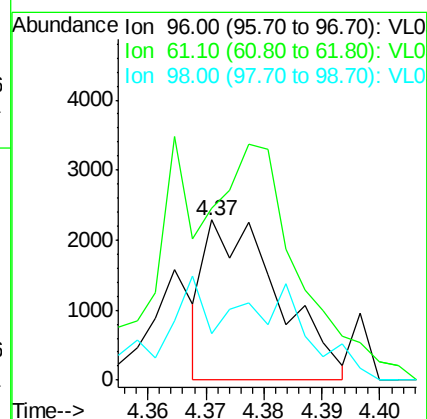
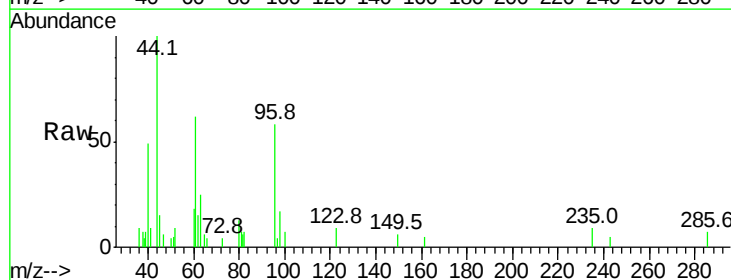
Tgt Ion: 96 Resp: 2006

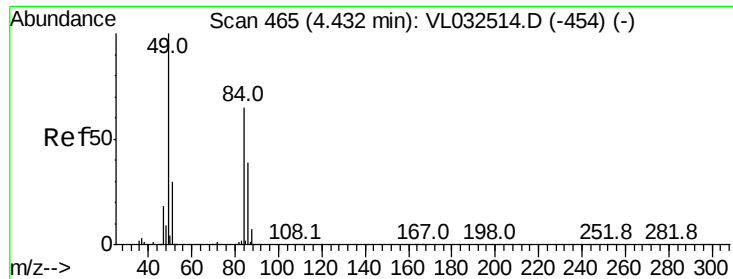
Ion Ratio Lower Upper

96 100

61 115.4 159.2 238.8#

98 7.5 51.0 76.4#

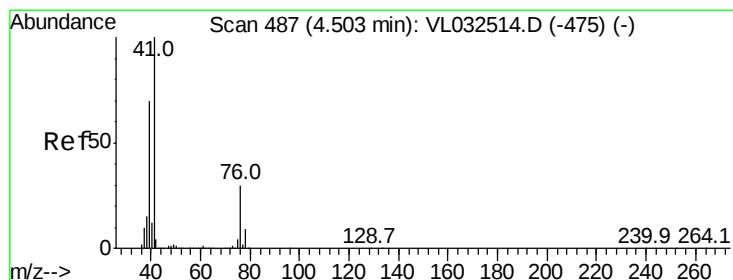
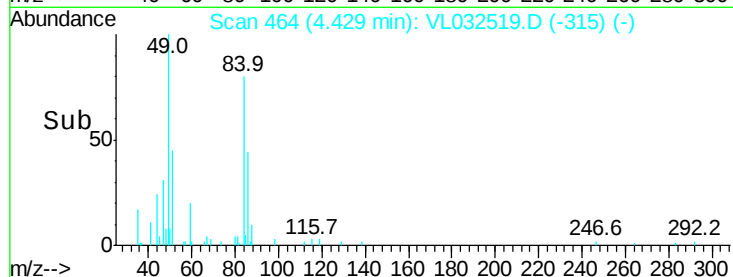
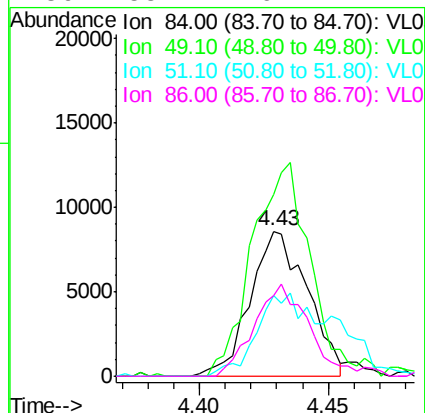
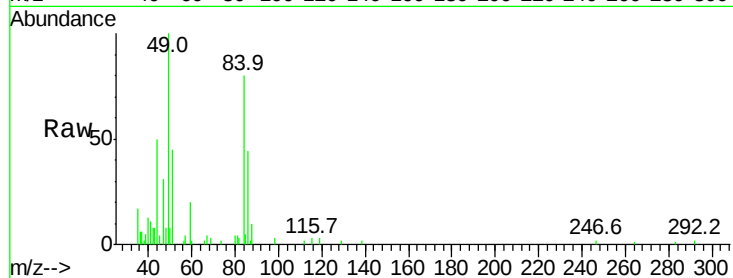




#20
Methylene Chloride
Concen: 0.254 ppbv
RT: 4.43 min Scan# 464
Delta R.T. -0.02 min
Lab File: VL032519.D
Acq: 24 Sep 2018 19:40

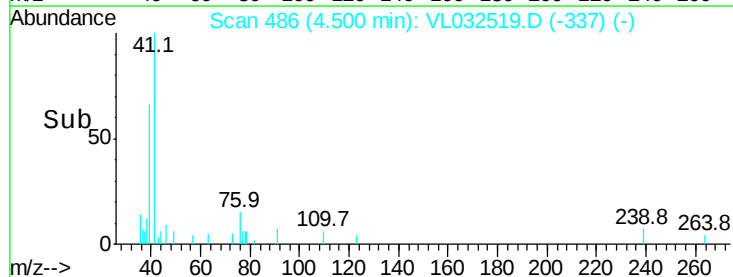
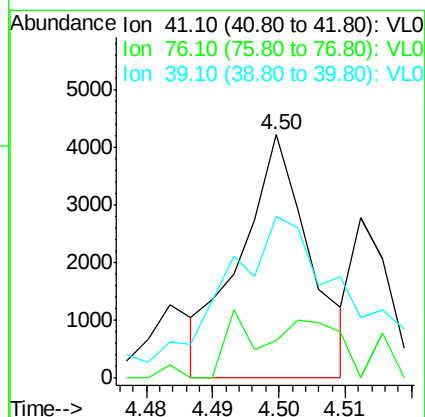
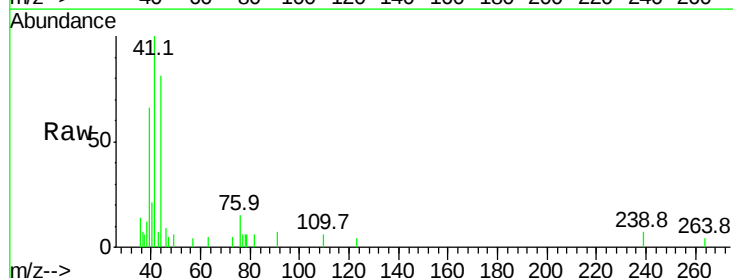
Instrument :
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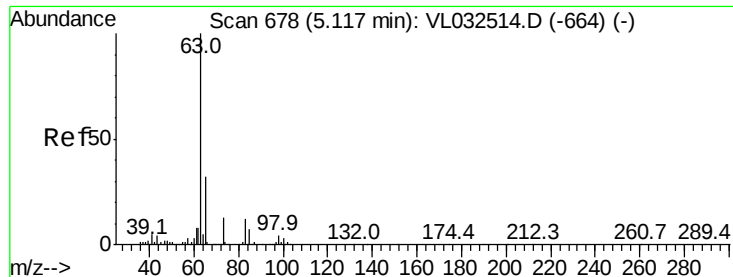
Tgt Ion: 84 Resp: 13319
Ion Ratio Lower Upper
84 100
49 125.2 119.1 178.7
51 55.9 35.2 52.8#
86 55.7 49.4 74.2



#21
Allyl Chloride
Concen: 0.033 ppbv
RT: 4.50 min Scan# 486
Delta R.T. -0.02 min
Lab File: VL032519.D
Acq: 24 Sep 2018 19:40

Tgt Ion: 41 Resp: 3054
Ion Ratio Lower Upper
41 100
76 38.5 23.6 35.4#
39 168.5 57.7 86.5#





#24

1,1-Dichloroethane

Concen: 0.033 ppbv

RT: 5.11 min Scan# 677

Delta R.T. -0.02 min

Lab File: VL032519.D

Acq: 24 Sep 2018 19:40

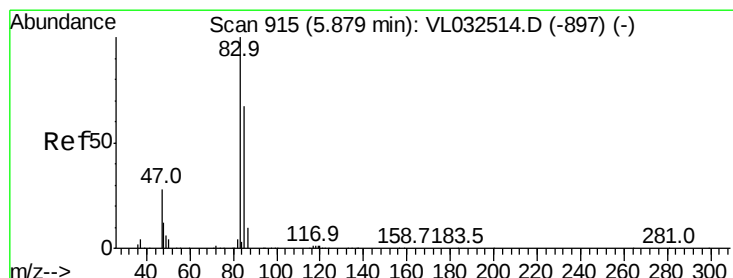
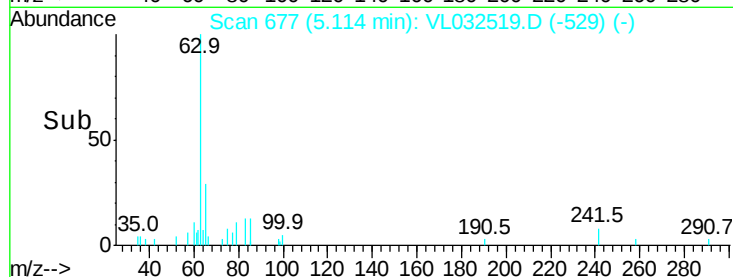
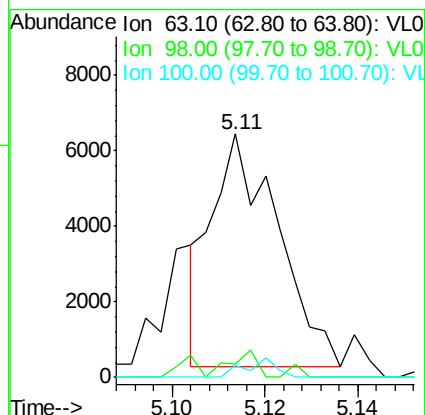
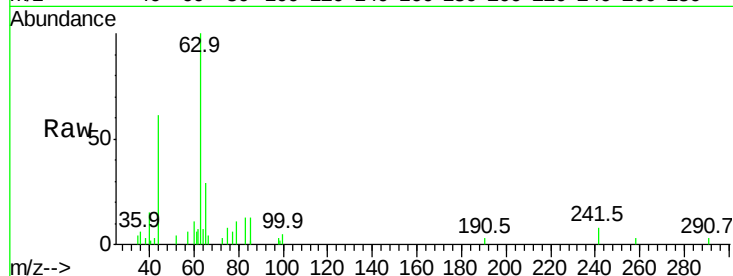
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tgt Ion:	63	Resp:	6099
Ion	Ratio	Lower	Upper
63	100		
98	5.5	2.1	6.5
100	4.9	1.5	4.4#



#29

Chloroform

Concen: 0.046 ppbv

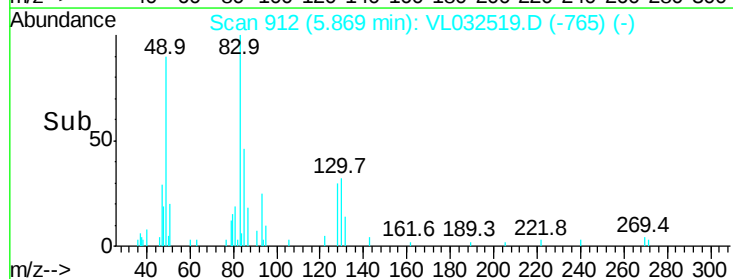
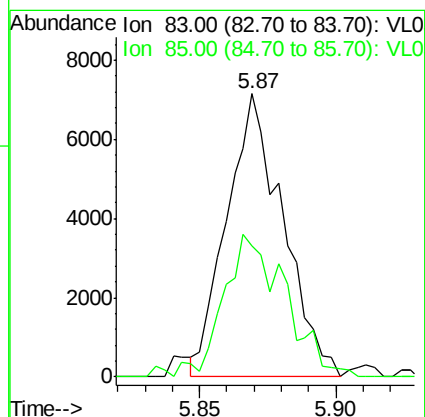
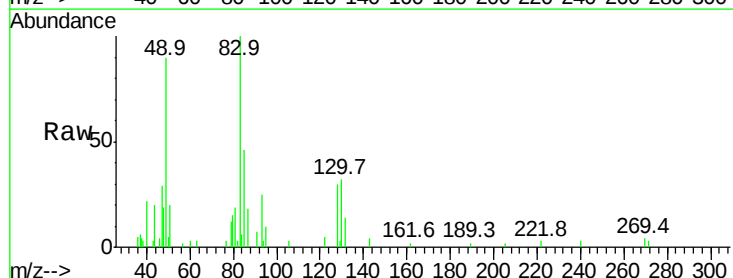
RT: 5.87 min Scan# 912

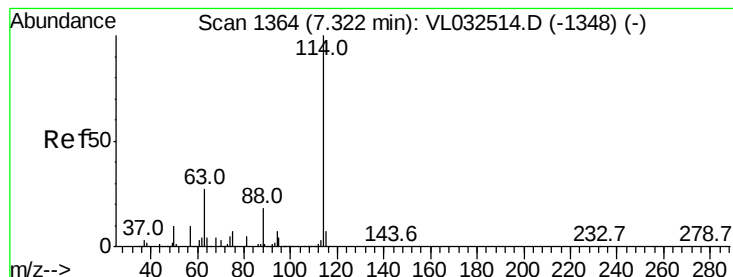
Delta R.T. -0.03 min

Lab File: VL032519.D

Acq: 24 Sep 2018 19:40

Tgt Ion:	83	Resp:	10232
Ion	Ratio	Lower	Upper
83	100		
85	43.6	52.5	78.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.32 min Scan# 1363

Delta R.T. -0.03 min

Lab File: VL032519.D

Acq: 24 Sep 2018 19:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

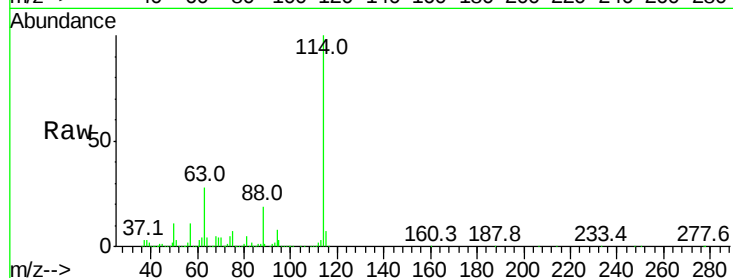
Tgt Ion:114 Resp: 3436942

Ion Ratio Lower Upper

114 100

63 27.4 22.2 33.4

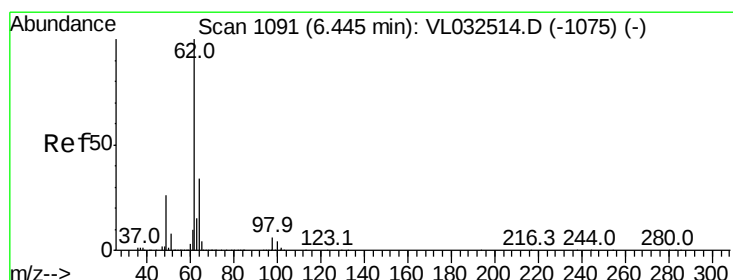
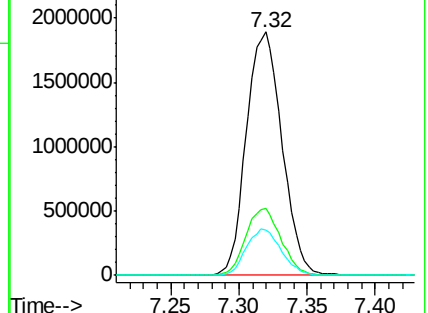
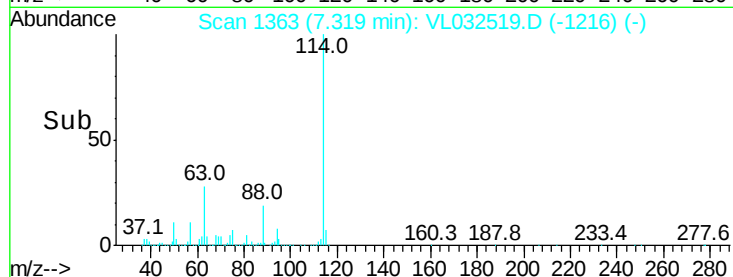
88 18.7 15.0 22.4



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#37

1,2-Dichloroethane

Concen: 0.036 ppbv

RT: 6.44 min Scan# 1088

Delta R.T. -0.03 min

Lab File: VL032519.D

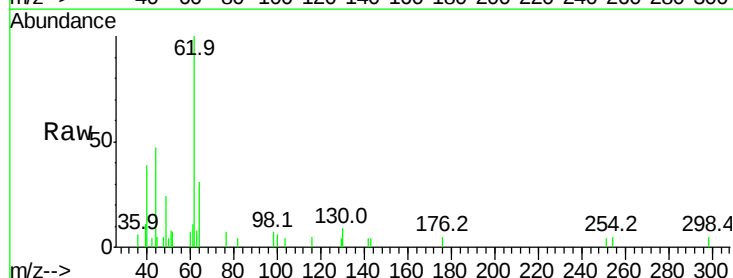
Acq: 24 Sep 2018 19:40

Tgt Ion: 62 Resp: 6511

Ion Ratio Lower Upper

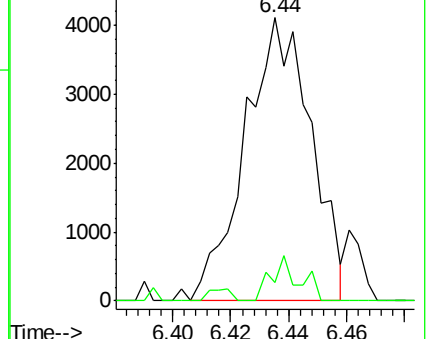
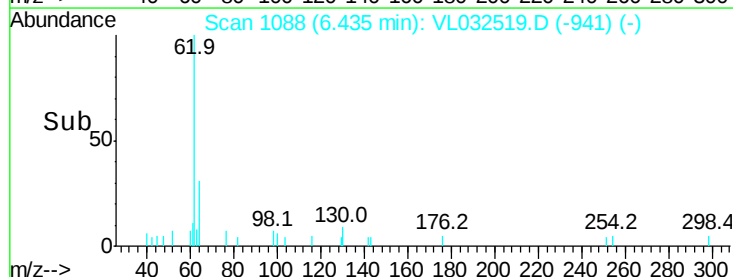
62 100

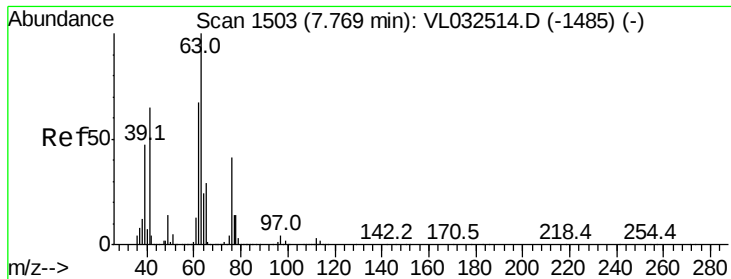
98 8.1 5.0 7.6#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

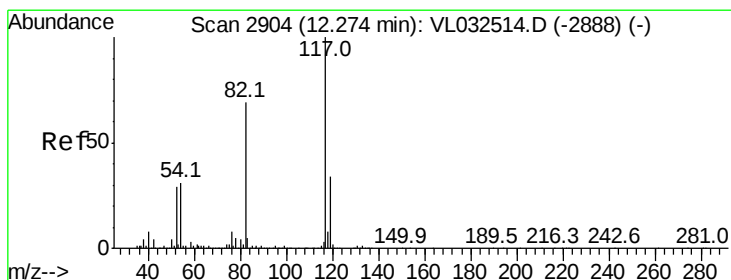
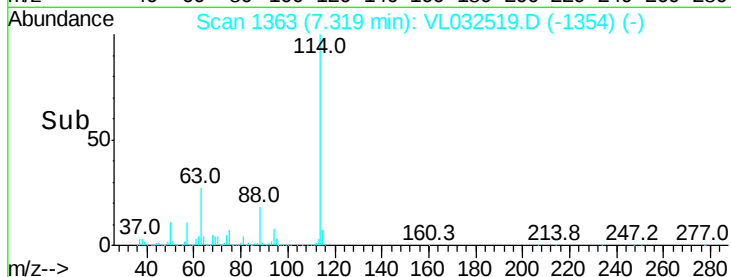
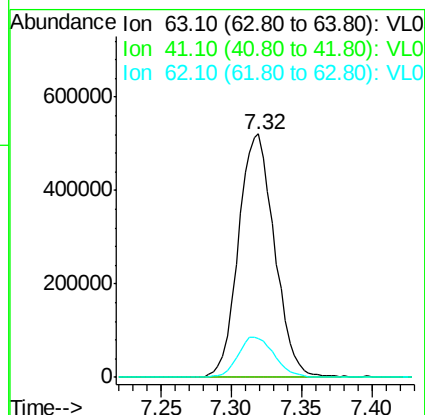
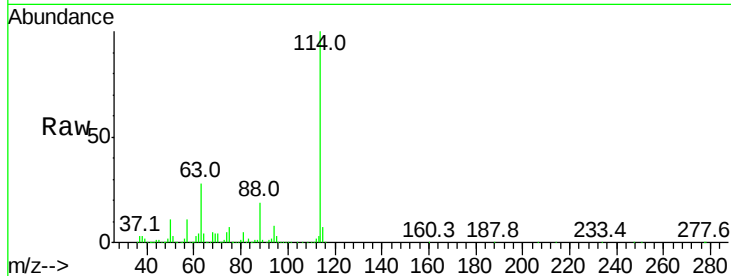




#39
 1,2-Dichloropropane
 Concen: 7.453 ppbv
 RT: 7.32 min Scan# 1363
 Delta R.T. -0.47 min
 Lab File: VL032519.D
 Acq: 24 Sep 2018 19:40

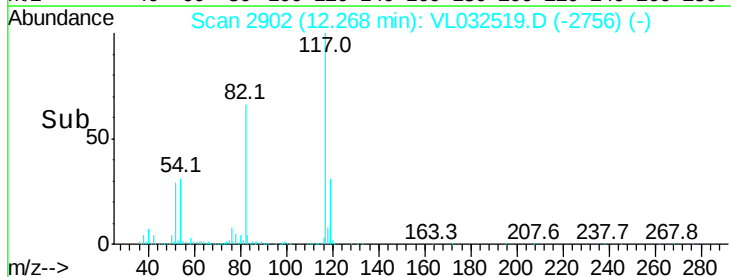
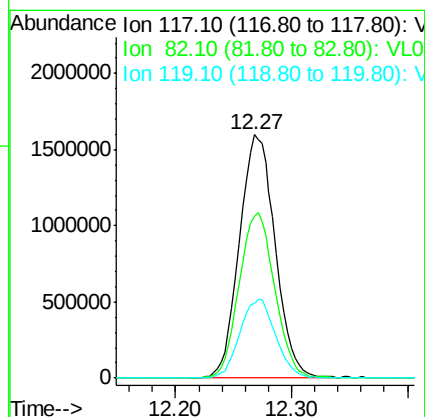
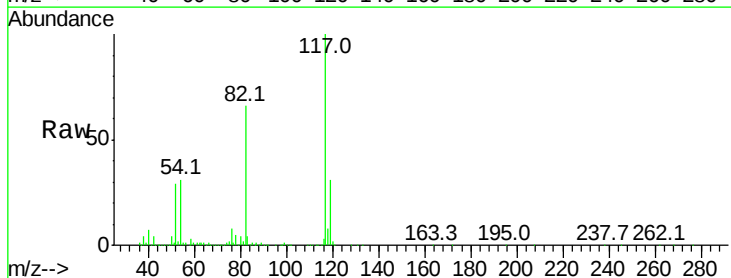
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

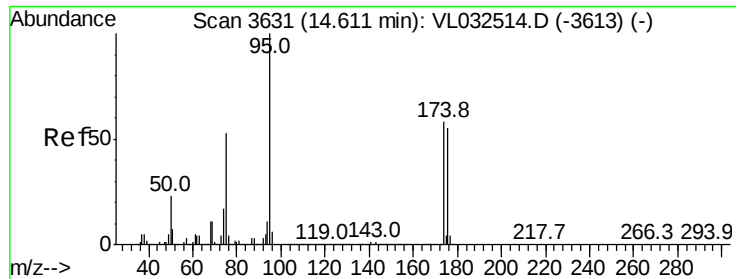
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.2	55.4	83.0#
62	16.1	55.4	83.0#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.27 min Scan# 2902
 Delta R.T. -0.03 min
 Lab File: VL032519.D
 Acq: 24 Sep 2018 19:40

Tgt Ion	Ratio	Lower	Upper
117	100		
82	68.1	53.0	79.6
119	32.5	45.9	68.9#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.176 ppbv

RT: 14.61 min Scan# 3630

Delta R.T. -0.03 min

Lab File: VL032519.D

Acq: 24 Sep 2018 19:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tgt Ion: 95 Resp: 2588688

Ion Ratio Lower Upper

95 100

174 58.7 46.3 69.5

175 4.2 3.4 5.0

