

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121718\
 Data File : VL033019.D
 Acq On : 18 Dec 2018 6:24
 Operator : SY/AP
 Sample : J6444-05DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 18 09:19:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 07 09:35:17 2018
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1135974	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2582007	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	1936167	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2100451	14.68	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	146.80%#

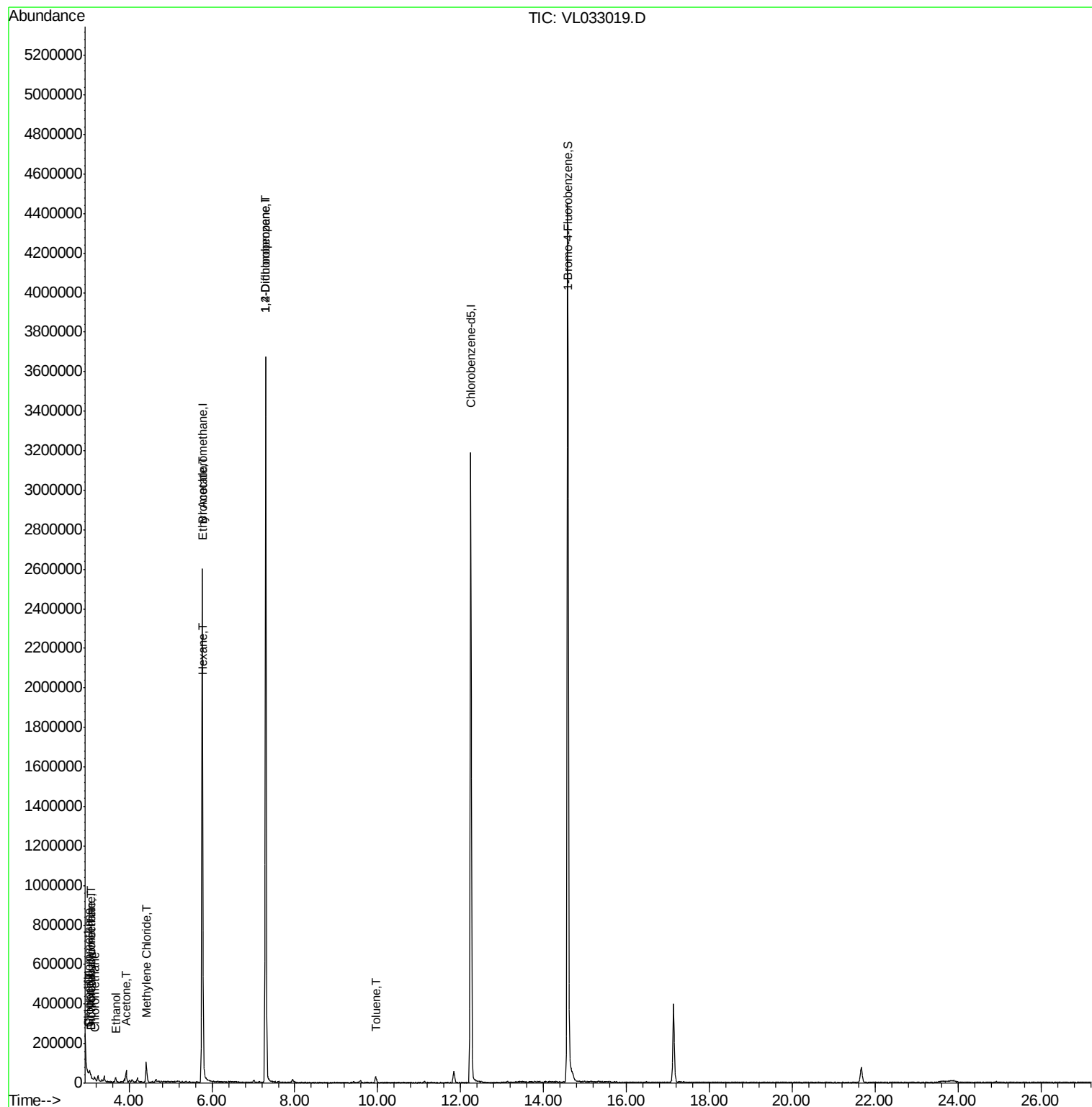
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	11024	0.073	ppbv #	86
3) Chlorodifluoromethane	3.02	51	8147	0.095	ppbv	98
4) Chloromethane	3.17	50	4172	0.083	ppbv #	82
8) Dichlorotetrafluoroethane	3.08	85	11024	0.087	ppbv #	17
9) Propene	3.05	41	5561	0.163	ppbv	97
13) Ethanol	3.67	45	17105	1.460	ppbv	84
15) Acetone	3.92	43	45457	0.466	ppbv	93
20) Methylene Chloride	4.41	84	33637	0.706	ppbv	93
25) Ethyl Acetate	5.78	43	9082	0.039	ppbv #	80
26) Hexane	5.79	57	19679	0.185	ppbv #	48
39) 1,2-Dichloropropane	7.30	63	629149	8.735	ppbv #	21
53) Toluene	9.95	91	24438	0.121	ppbv	98

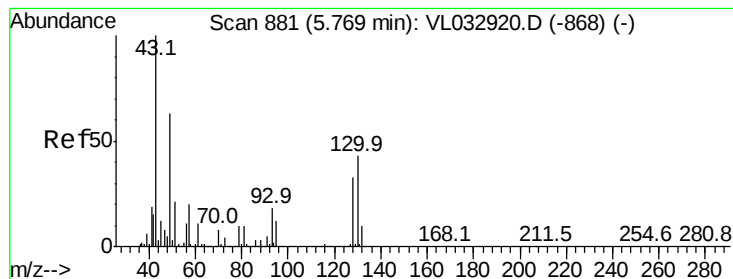
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
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QLast Update : Fri Dec 07 09:35:17 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL033019.D

Acq: 18 Dec 2018 6:24

Instrument :

MSVOA_L

ClientSampleId :

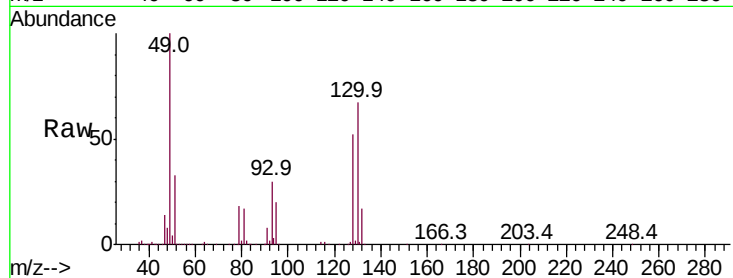
Tot Ion: 49 Resp: 1135974

Ion Ratio Lower Upper

49 100

128 53.1 26.3 78.8

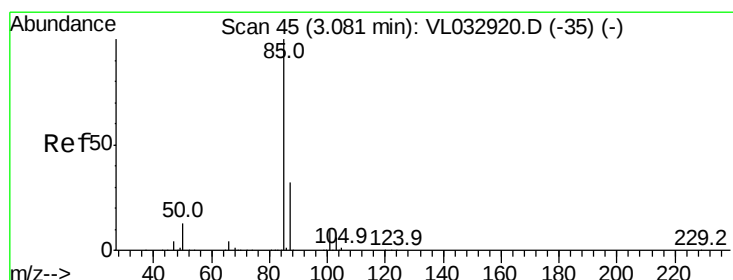
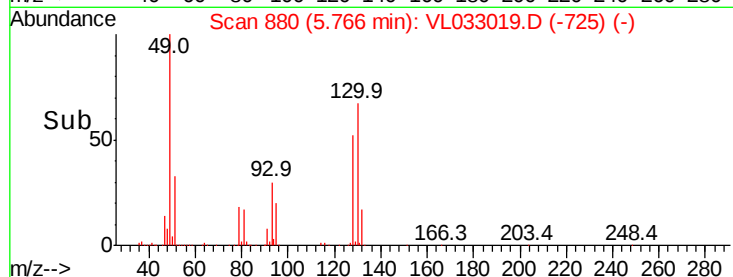
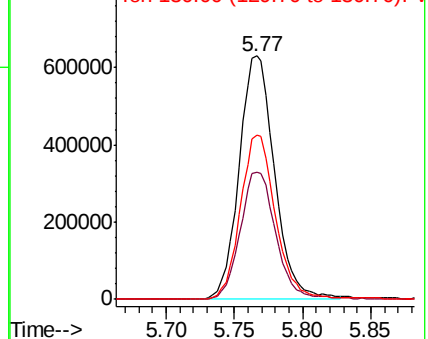
130 67.7 33.9 101.7



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: 0.073 ppbv

RT: 3.08 min Scan# 46

Delta R.T. 0.00 min

Lab File: VL033019.D

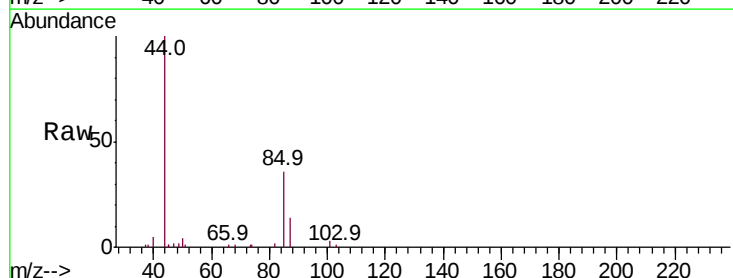
Acq: 18 Dec 2018 6:24

Tgt Ion: 85 Resp: 11024

Ion Ratio Lower Upper

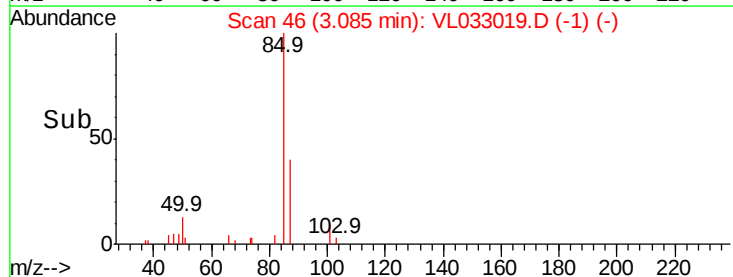
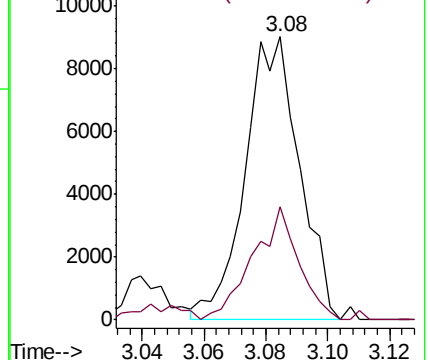
85 100

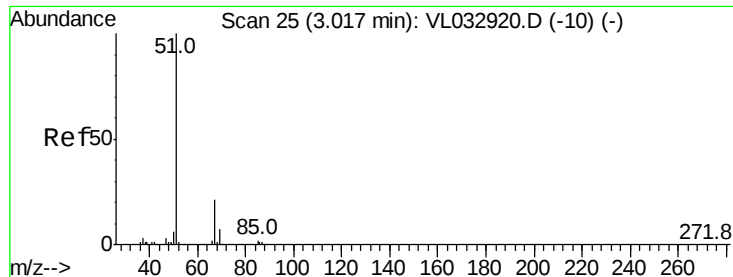
87 40.1 25.7 38.5#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.095 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033019.D

Acq: 18 Dec 2018 6:24

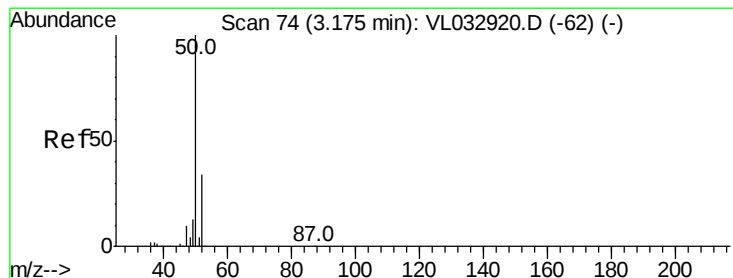
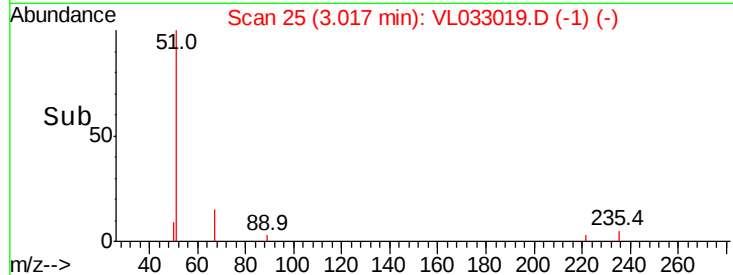
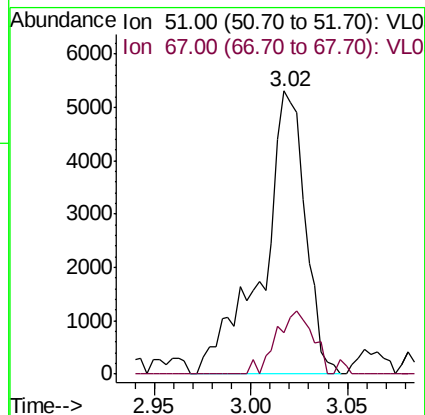
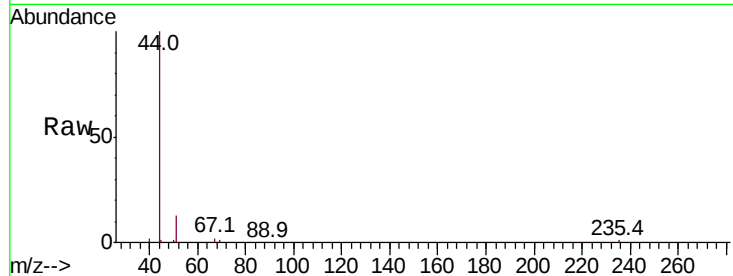
Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 51 Resp: 8147

Ion Ratio Lower Upper

51 100

67 20.1 16.8 25.2



#4

Chloromethane

Concen: 0.083 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL033019.D

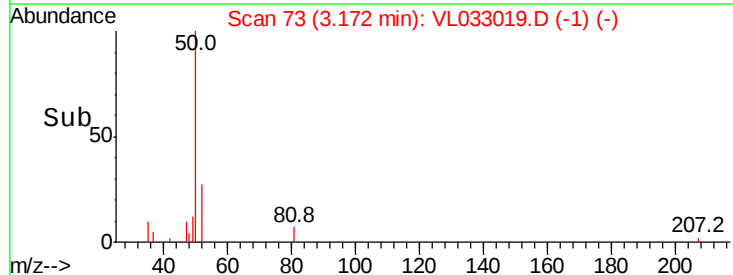
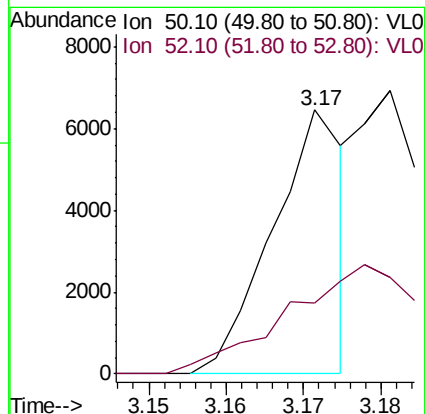
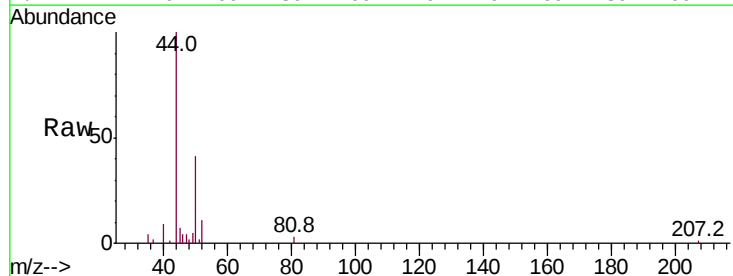
Acq: 18 Dec 2018 6:24

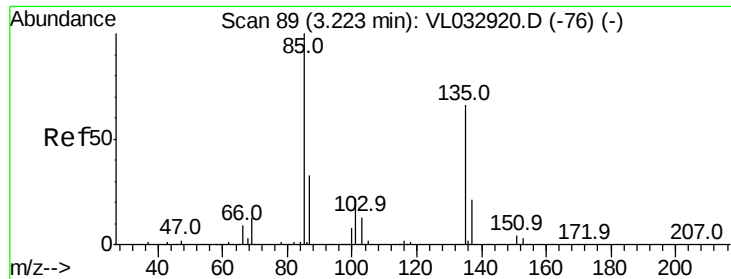
Tgt Ion: 50 Resp: 4172

Ion Ratio Lower Upper

50 100

52 23.7 27.3 40.9#





#8

Dichlorotetrafluoroethane

Concen: 0.087 ppbv

RT: 3.08 min Scan# 46

Delta R.T. -0.14 min

Lab File: VL033019.D

Acq: 18 Dec 2018 6:24

Instrument :

MSVOA_L

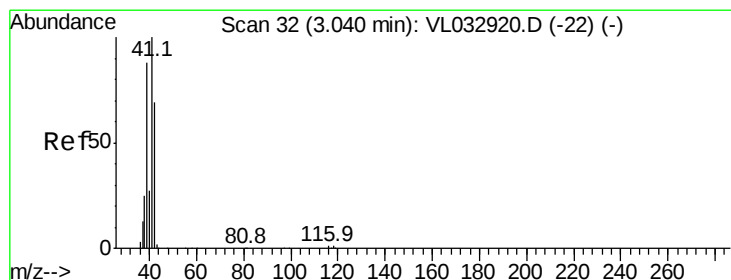
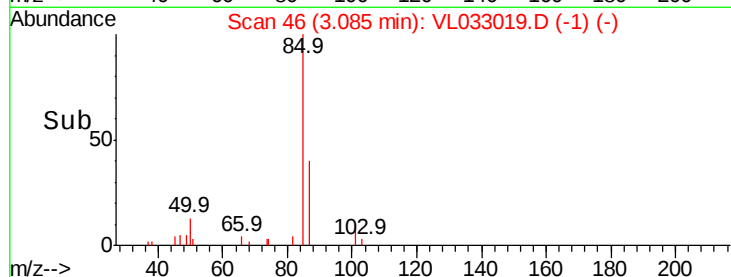
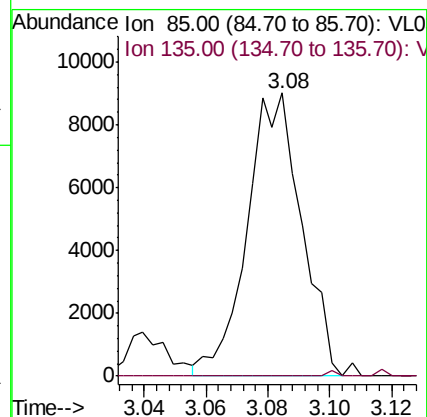
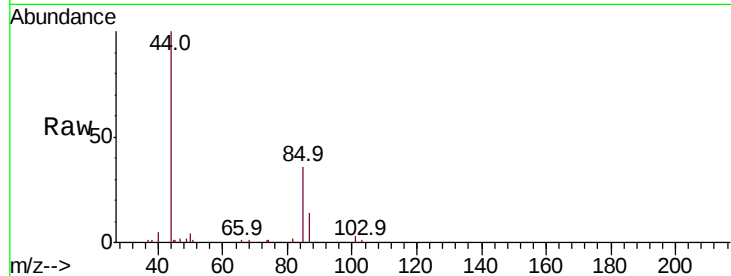
ClientSampleId :

Tot Ion: 85 Resp: 11024

Ion Ratio Lower Upper

85 100

135 0.7 54.5 81.7#



#9

Propene

Concen: 0.163 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.01 min

Lab File: VL033019.D

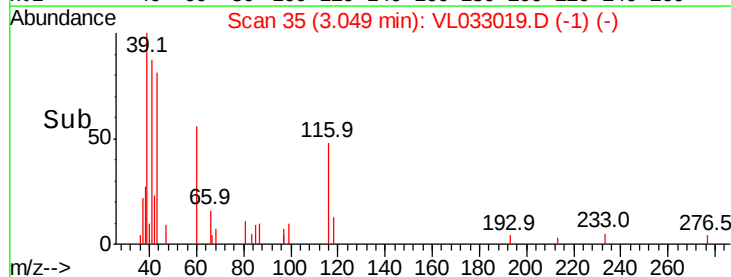
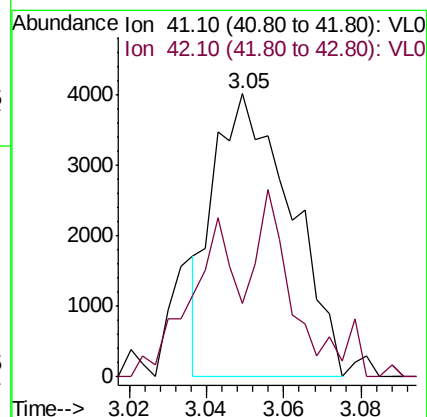
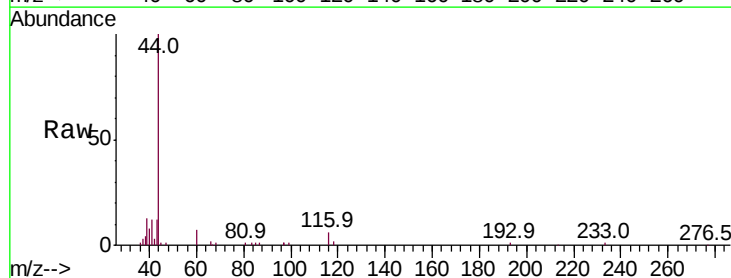
Acq: 18 Dec 2018 6:24

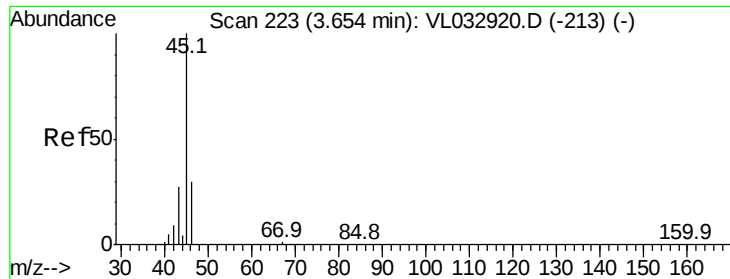
Tgt Ion: 41 Resp: 5561

Ion Ratio Lower Upper

41 100

42 67.8 56.2 84.2





#13

Ethanol

Concen: 1.460 ppbv

RT: 3.67 min Scan# 229

Delta R.T. 0.02 min

Lab File: VL033019.D

Acq: 18 Dec 2018 6:24

Instrument :

MSVOA_L

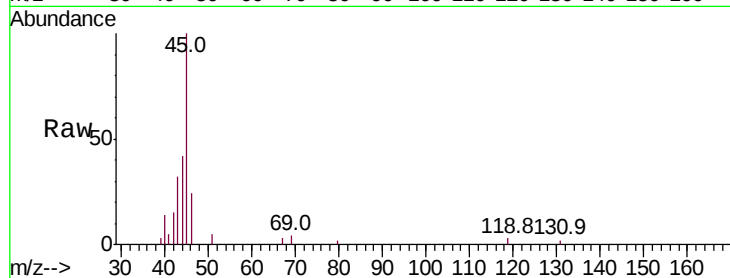
ClientSampled :

Tot Ion: 45 Resp: 17105

Ion Ratio Lower Upper

45 100

46 43.7 13.8 55.4



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

12000

10000

8000

6000

4000

2000

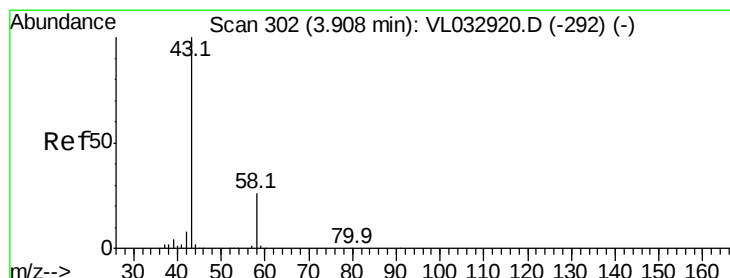
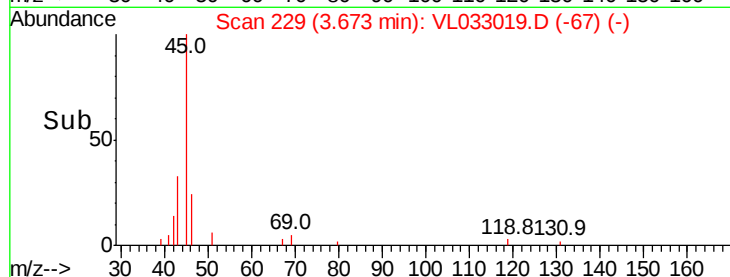
0

3.65

3.67

3.70

Time-->



#15

Acetone

Concen: 0.466 ppbv

RT: 3.92 min Scan# 307

Delta R.T. 0.02 min

Lab File: VL033019.D

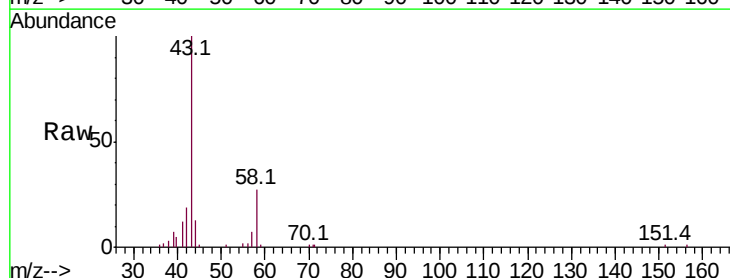
Acq: 18 Dec 2018 6:24

Tgt Ion: 43 Resp: 45457

Ion Ratio Lower Upper

43 100

58 29.3 20.6 30.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

30000

20000

10000

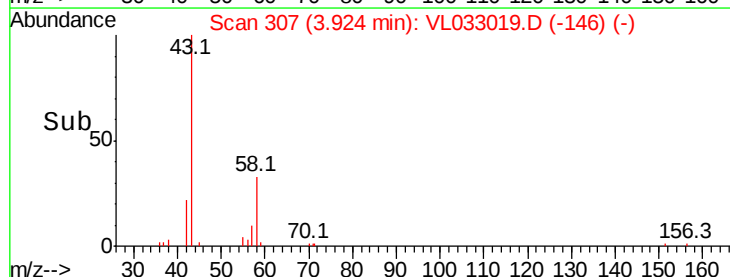
0

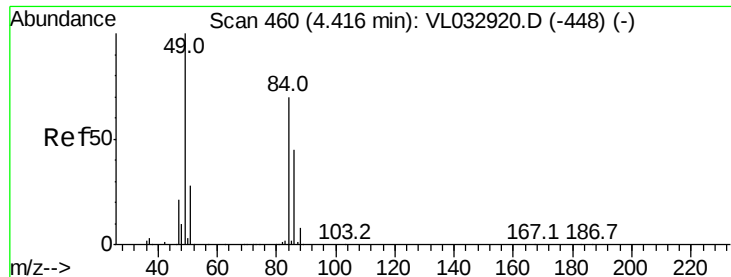
3.90

3.92

3.95

Time-->

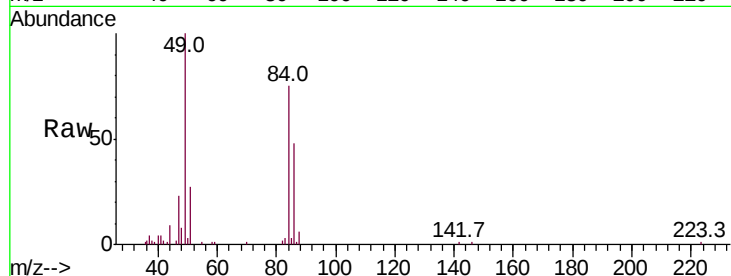




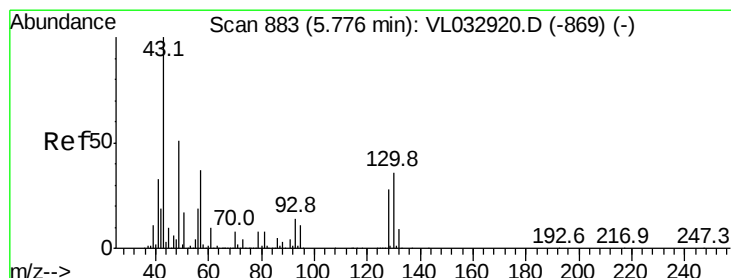
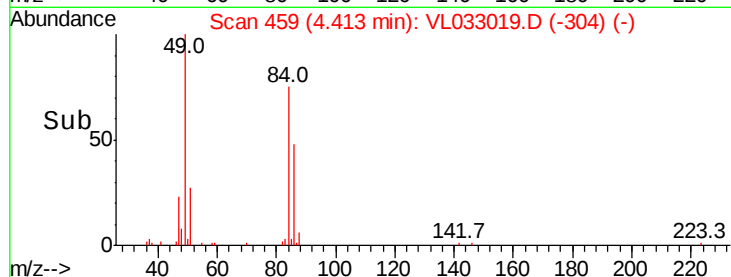
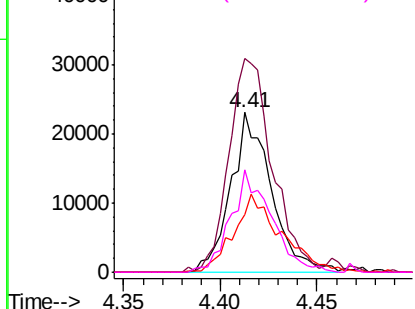
#20
Methvlene Chloride
Concen: 0.706 ppbv
RT: 4.41 min Scan# 459
Delta R.T. -0.00 min
Lab File: VL033019.D
Acq: 18 Dec 2018 6:24

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	84	Resp:	33637
Ion	Ratio	Lower	Upper
84	100		
49	130.4	113.8	170.8
51	34.5	31.8	47.8
86	64.1	50.8	76.2

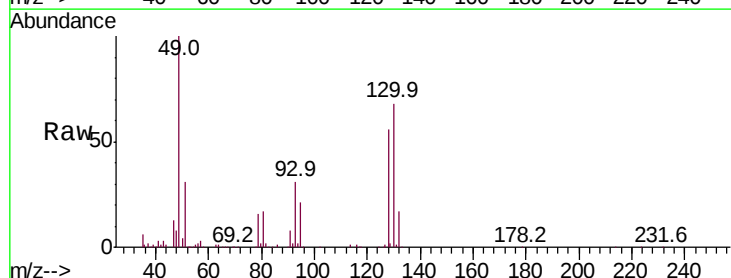


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

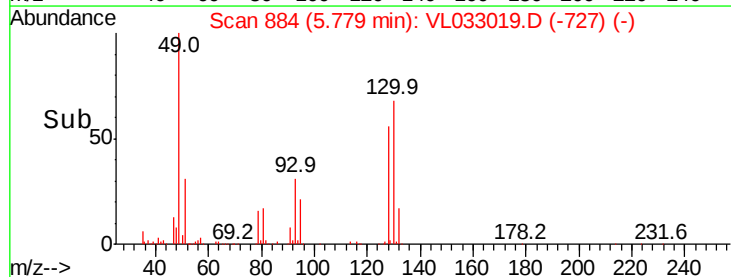
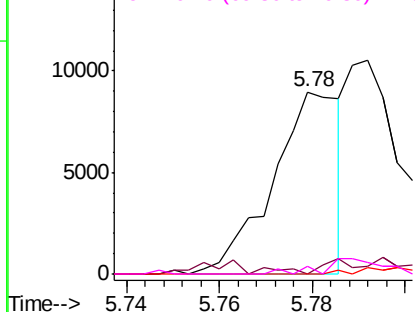


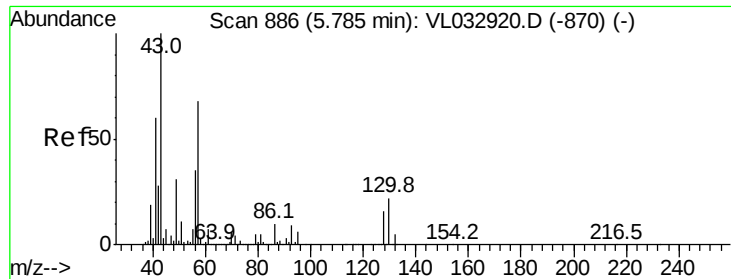
#25
Ethyl Acetate
Concen: 0.039 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.00 min
Lab File: VL033019.D
Acq: 18 Dec 2018 6:24

Tgt Ion:	43	Resp:	9082
Ion	Ratio	Lower	Upper
43	100		
45	3.9	7.8	11.6#
61	0.0	7.4	11.2#
70	0.4	5.7	8.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

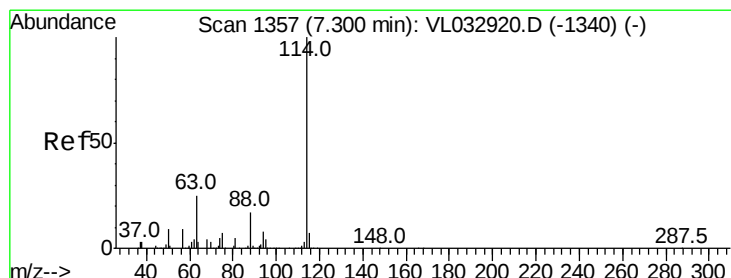
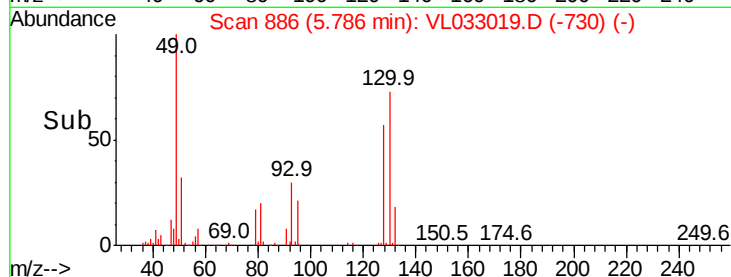
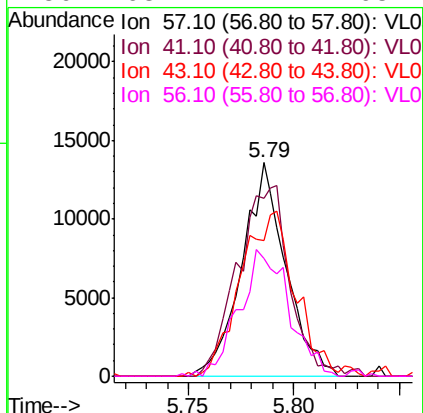
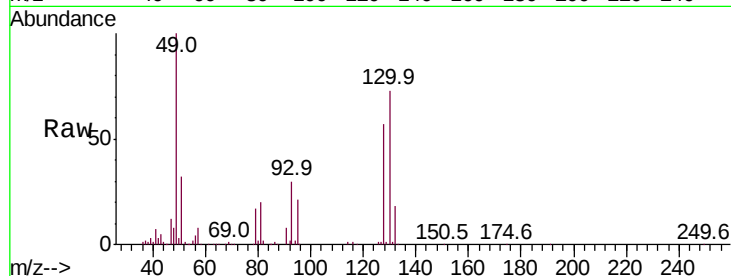




#26
Hexane
Concen: 0.185 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.00 min
Lab File: VL033019.D
Acq: 18 Dec 2018 6:24

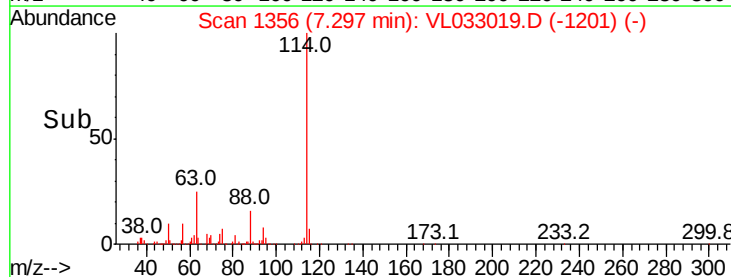
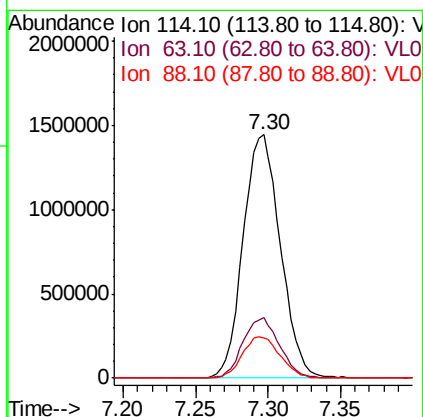
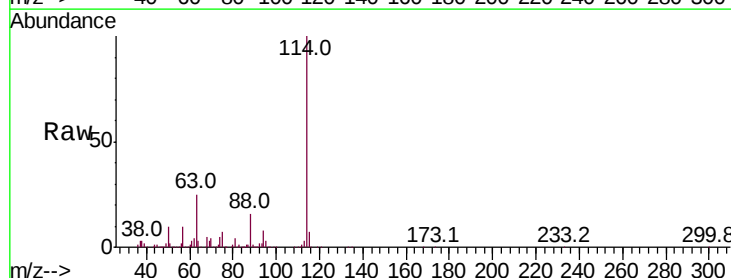
Instrument :
MSVOA_L
ClientSampleId :

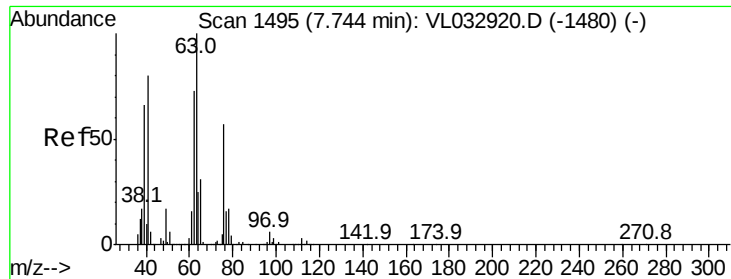
Tot Ion: 57 Resp: 19679
Ion Ratio Lower Upper
57 100
41 106.5 72.2 108.2
43 98.6 171.9 257.9#
56 68.1 42.2 63.2#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1356
Delta R.T. -0.00 min
Lab File: VL033019.D
Acq: 18 Dec 2018 6:24

Tgt Ion:114 Resp: 2582007
Ion Ratio Lower Upper
114 100
63 24.6 20.1 30.1
88 17.3 14.2 21.4

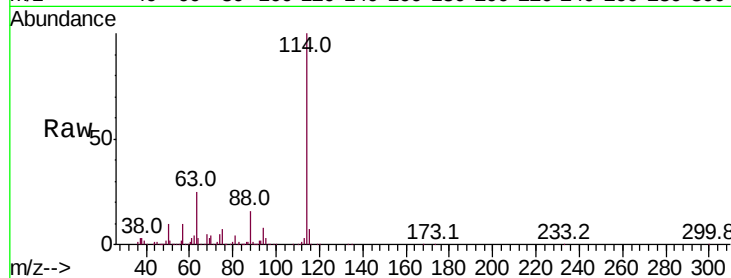




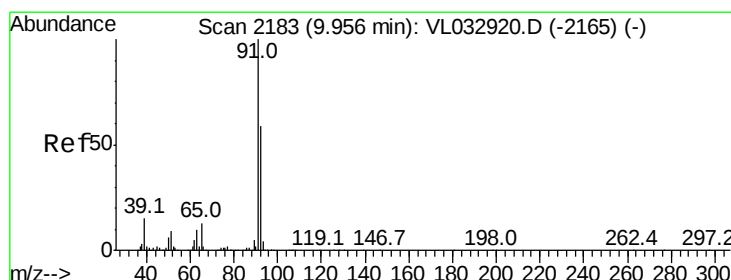
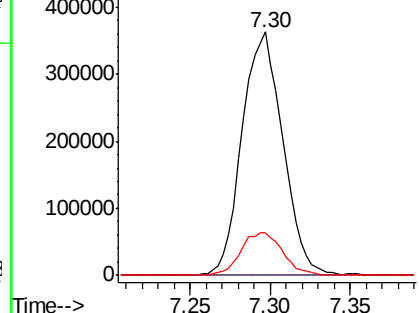
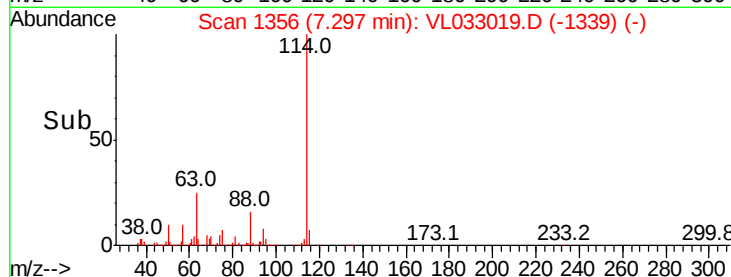
#39
 1,2-Dichloropropane
 Concen: 8.735 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. -0.45 min
 Lab File: VL033019.D
 Acq: 18 Dec 2018 6:24

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	63.9	95.9#
62	17.4	58.8	88.2#

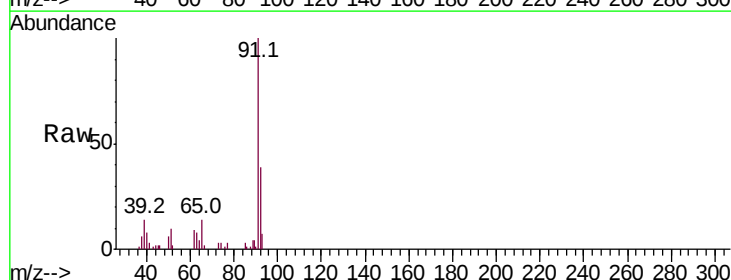


Abundance Ion 63.10 (62.80 to 63.80): VL0
 500000
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

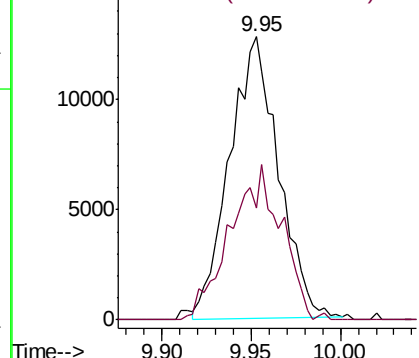
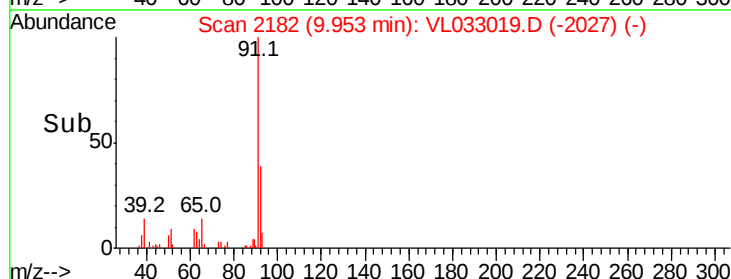


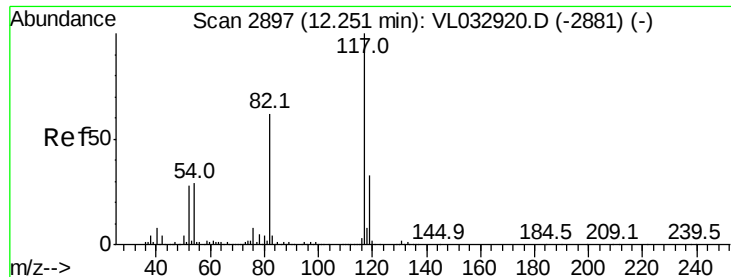
#53
 Toluene
 Concen: 0.121 ppbv
 RT: 9.95 min Scan# 2182
 Delta R.T. -0.00 min
 Lab File: VL033019.D
 Acq: 18 Dec 2018 6:24

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.7	47.4	71.0



Abundance Ion 91.10 (90.80 to 91.80): VL0
 15000
 Ion 92.10 (91.80 to 92.80): VL0

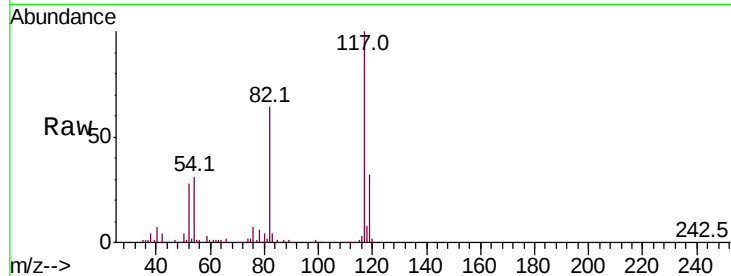




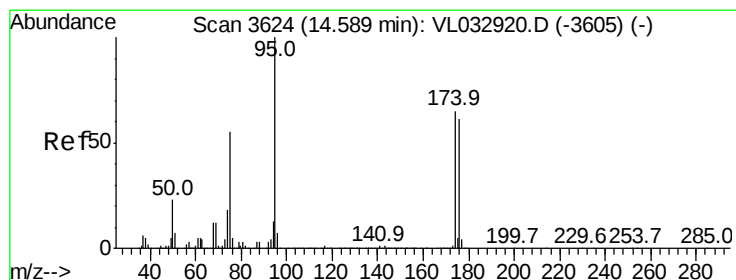
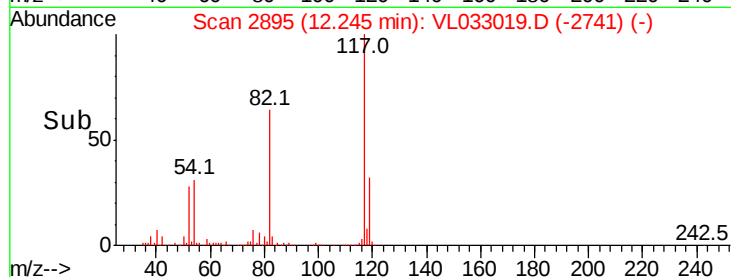
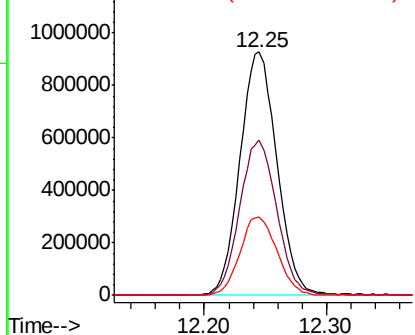
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2895
Delta R.T. -0.01 min
Lab File: VL033019.D
Acq: 18 Dec 2018 6:24

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 1936167
Ion Ratio Lower Upper
117 100
82 64.9 47.8 71.8
119 32.6 43.1 64.7#

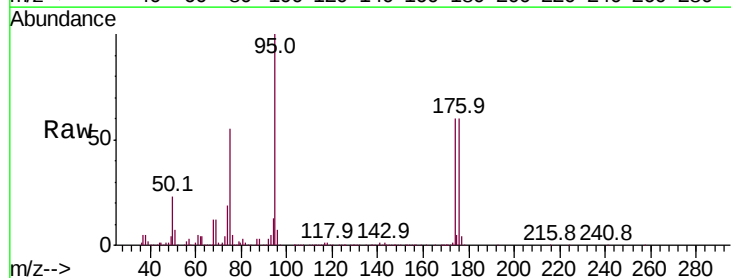


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 14.684 ppbv
RT: 14.58 min Scan# 3621
Delta R.T. -0.01 min
Lab File: VL033019.D
Acq: 18 Dec 2018 6:24

Tgt Ion: 95 Resp: 2100451
Ion Ratio Lower Upper
95 100
174 65.8 51.4 77.0
175 5.0 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V

