

Data File : VL033191.D
Acq On : 13 Feb 2019 17:49
Operator : SY/AP
Sample : K1408-03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
FM-AA

Quant Time: Feb 14 04:27:46 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	981441	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2275670	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2230317	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1774730	10.33	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.30%

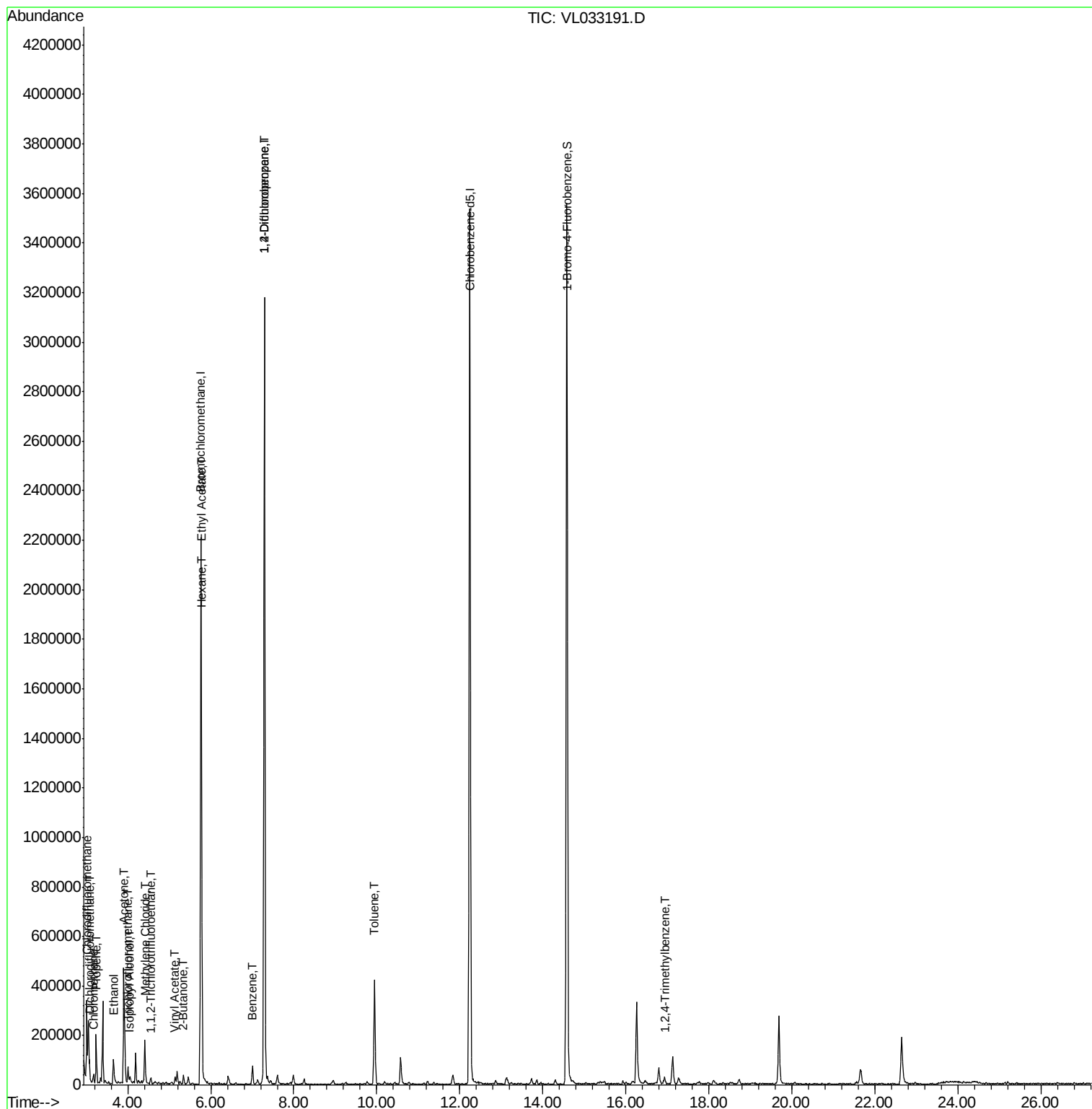
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	57132	0.304	ppbv	95
3) Chlorodifluoromethane	3.02	51	296141	2.506	ppbv	99
4) Chloromethane	3.17	50	25894	0.415	ppbv	96
9) Propene	3.24	41	43671	0.765	ppbv	95
11) Trichlorofluoromethane	4.00	101	38789	0.255	ppbv	89
12) 1,1,2-Trichlorotrifluoroet	4.55	101	3843	0.037	ppbv #	14
13) Ethanol	3.66	45	108747	5.713	ppbv	99
15) Acetone	3.91	43	495101	4.478	ppbv	98
19) Isopropyl Alcohol	4.05	45	23742	0.317	ppbv #	1
20) Methylene Chloride	4.41	84	57568	1.309	ppbv #	89
23) Vinyl Acetate	5.14	43	13074	0.068	ppbv #	1
25) Ethyl Acetate	5.78	43	181604	0.730	ppbv #	83
26) Hexane	5.78	57	217324	1.862	ppbv #	46
34) 2-Butanone	5.34	43	39953	0.277	ppbv	99
36) Benzene	7.00	78	52977	0.230	ppbv #	91
39) 1,2-Dichloropropane	7.29	63	608642	6.682	ppbv #	26
53) Toluene	9.94	91	317721	1.163	ppbv	98
74) 1,2,4-Trimethylbenzene	16.93	105	10715	0.032	ppbv #	78

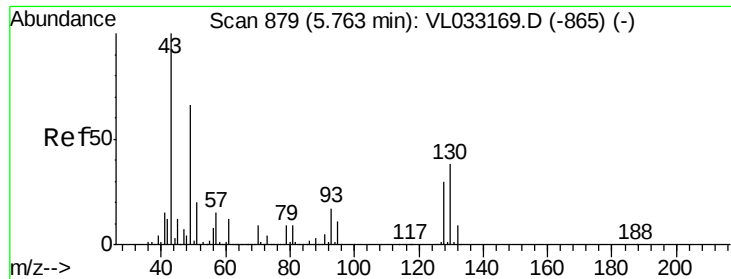
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033191.D

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Instrument :

MSVOA_L

ClientSampleId :

FM-AA

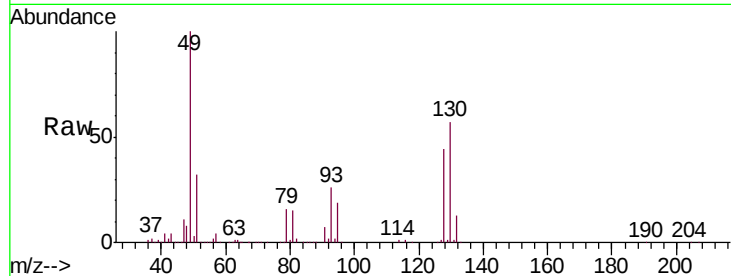
Tgt Ion: 49 Resp: 981441

Ion Ratio Lower Upper

49 100

128 45.9 23.6 71.0

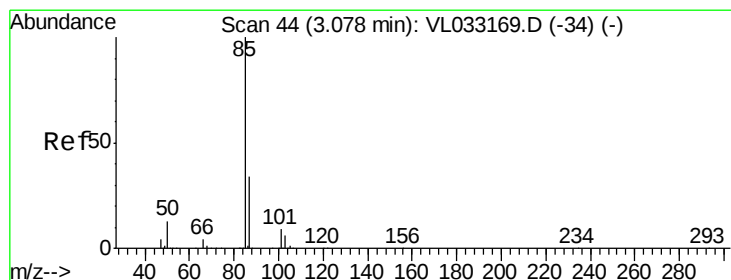
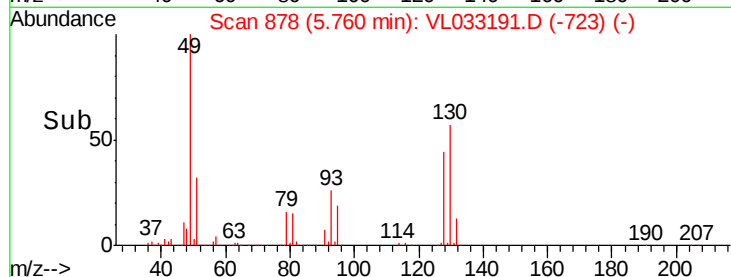
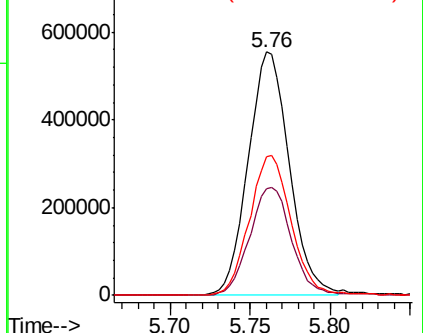
130 58.6 30.3 91.0



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



#2

Dichlorodifluoromethane

Concen: 0.304 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.00 min

Lab File: VL033191.D

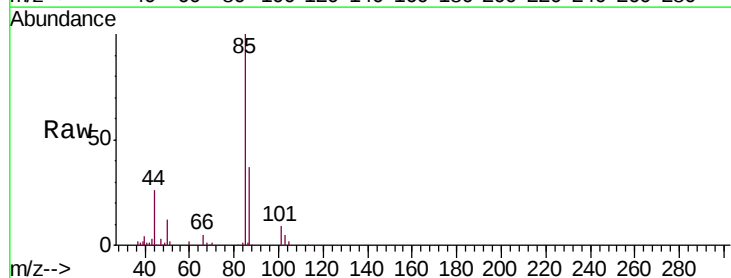
Acq: 13 Feb 2019 17:49

Tgt Ion: 85 Resp: 57132

Ion Ratio Lower Upper

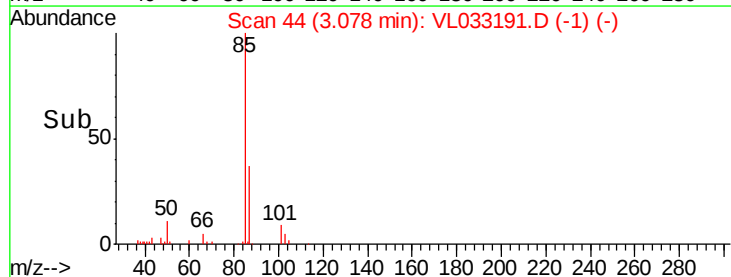
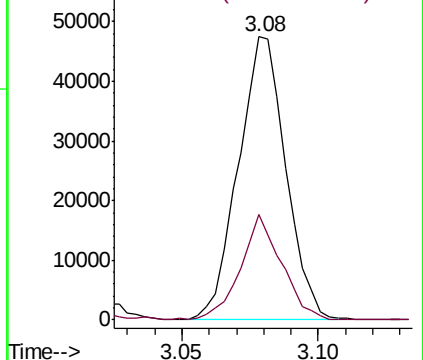
85 100

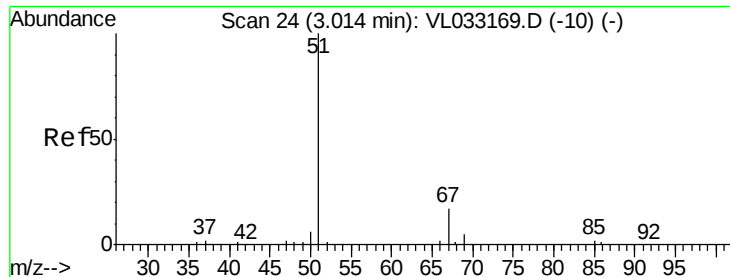
87 37.4 27.4 41.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 2.506 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033191.D

Acq: 13 Feb 2019 17:49

Instrument :

MSVOA_L

ClientSampleId :

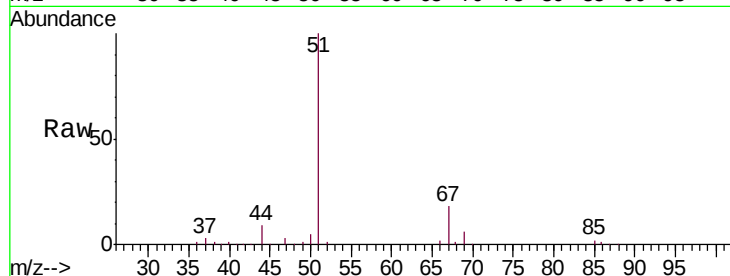
FM-AA

Tgt Ion: 51 Resp: 296141

Ion Ratio Lower Upper

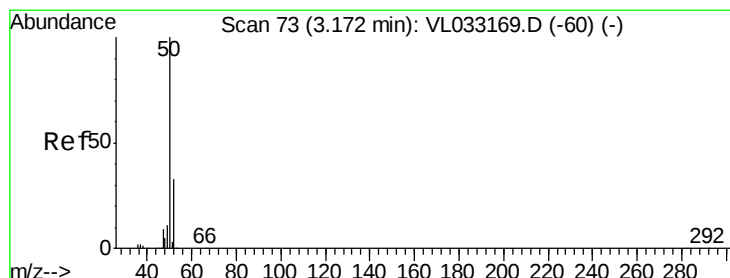
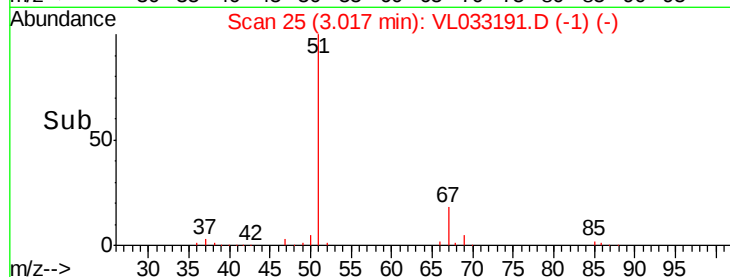
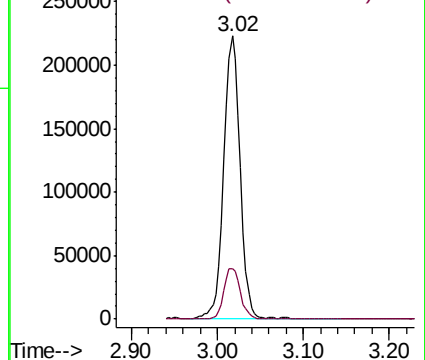
51 100

67 18.0 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: 0.415 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL033191.D

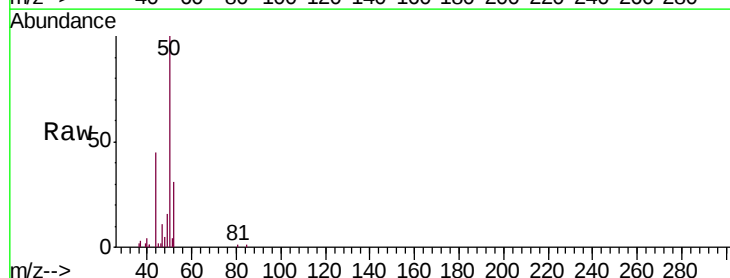
Acq: 13 Feb 2019 17:49

Tgt Ion: 50 Resp: 25894

Ion Ratio Lower Upper

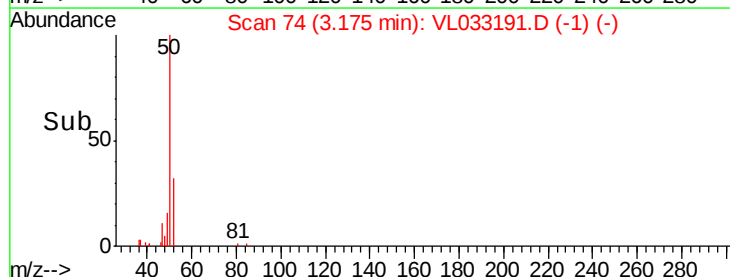
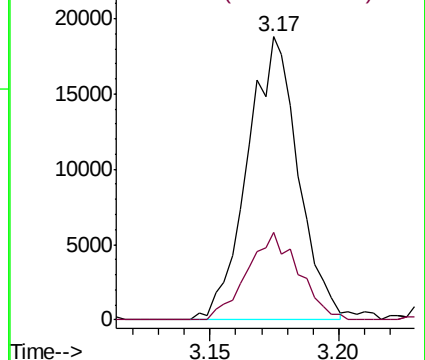
50 100

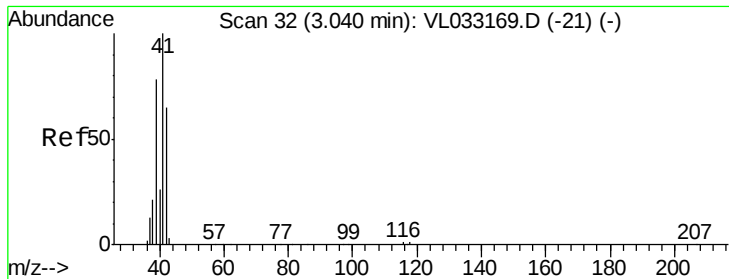
52 31.0 26.5 39.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.765 ppbv

RT: 3.24 min Scan# 95

Delta R.T. 0.20 min

Lab File: VL033191.D

Acq: 13 Feb 2019 17:49

Instrument :

MSVOA_L

ClientSampleId :

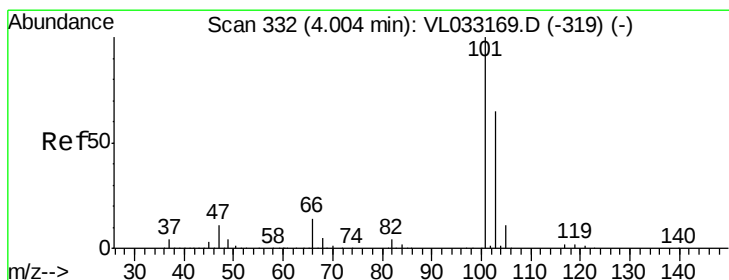
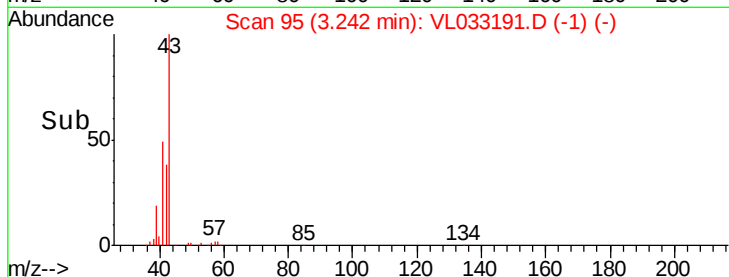
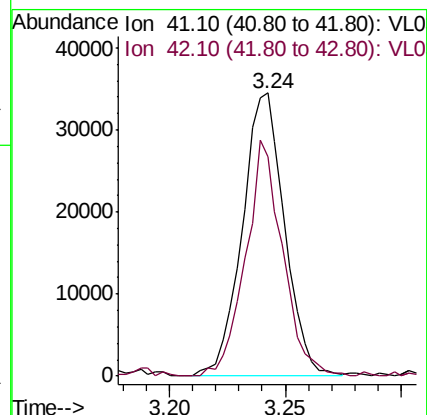
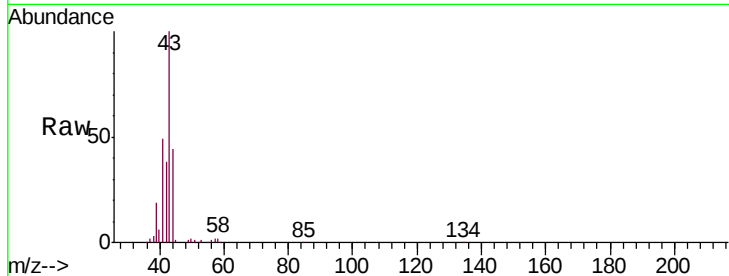
FM-AA

Tgt Ion: 41 Resp: 43671

Ion Ratio Lower Upper

41 100

42 73.2 55.0 82.6



#11

Trichlorofluoromethane

Concen: 0.255 ppbv

RT: 4.00 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL033191.D

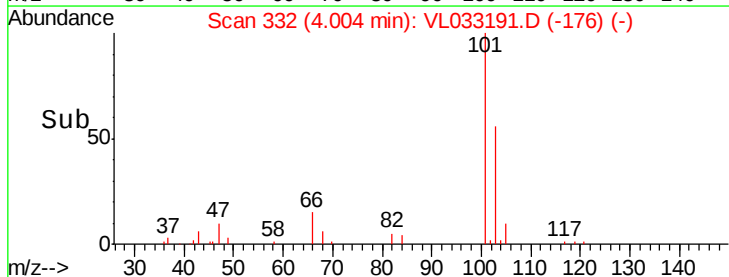
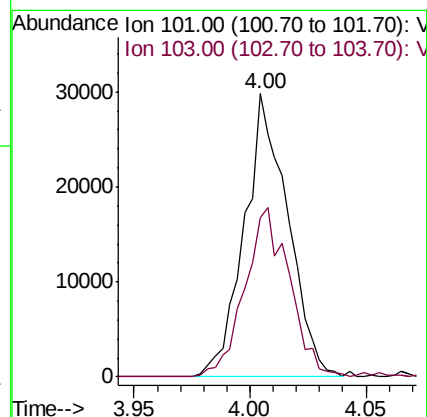
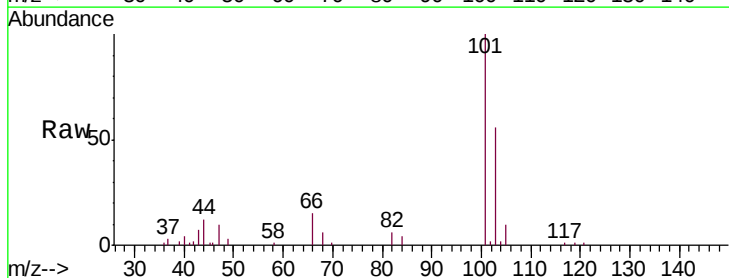
Acq: 13 Feb 2019 17:49

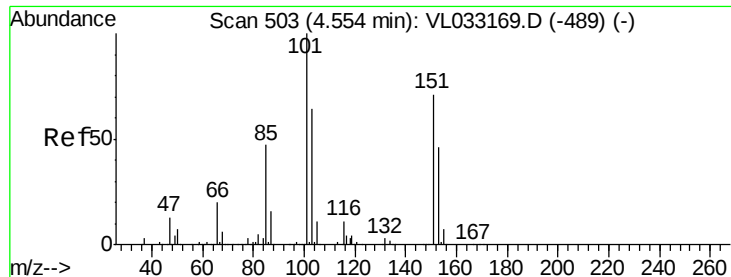
Tgt Ion: 101 Resp: 38789

Ion Ratio Lower Upper

101 100

103 56.2 51.7 77.5





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.037 ppbv

RT: 4.55 min Scan# 501

Delta R.T. -0.01 min

Lab File: VL033191.D

Acq: 13 Feb 2019 17:49

Instrument :

MSVOA_L

ClientSampleId :

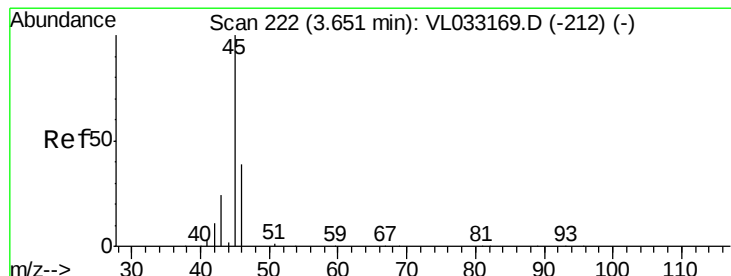
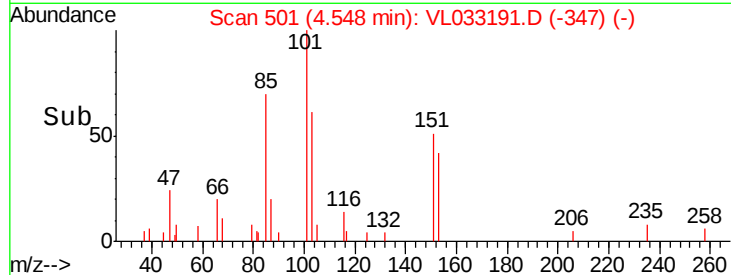
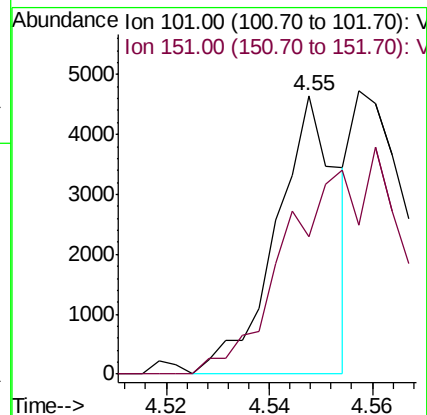
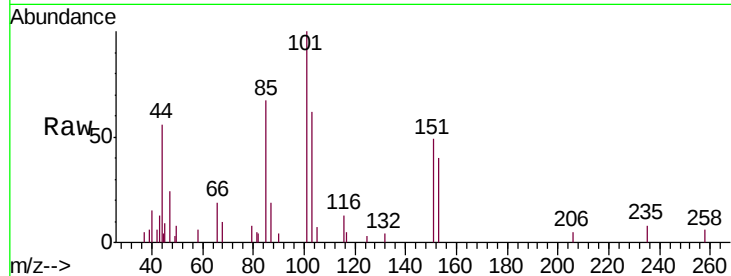
FM-AA

Tgt Ion: 101 Resp: 3843

Ion Ratio Lower Upper

101 100

151 0.0 57.4 86.0#



#13

Ethanol

Concen: 5.713 ppbv

RT: 3.66 min Scan# 225

Delta R.T. 0.01 min

Lab File: VL033191.D

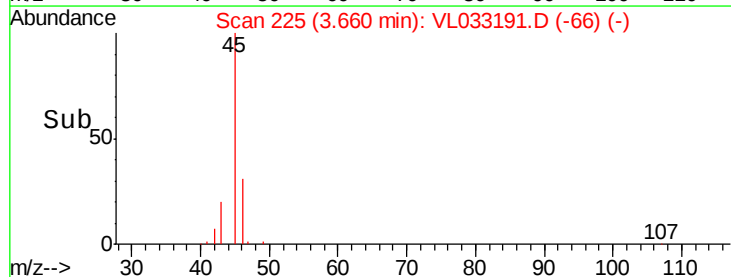
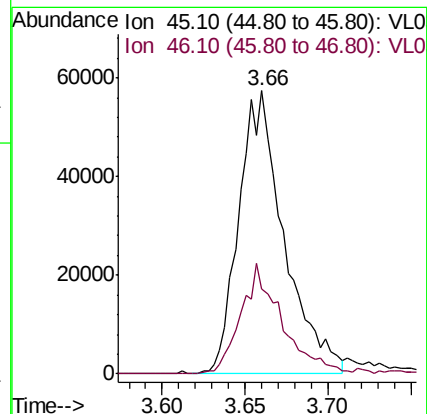
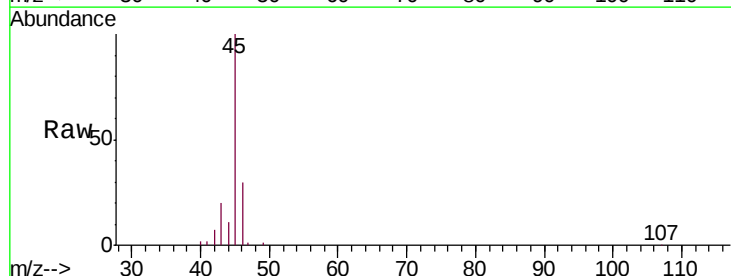
Acq: 13 Feb 2019 17:49

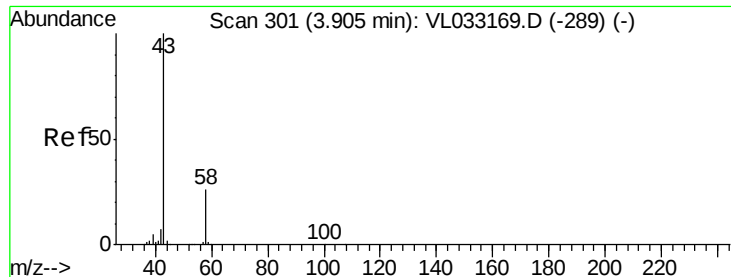
Tgt Ion: 45 Resp: 108747

Ion Ratio Lower Upper

45 100

46 36.8 15.0 60.2





#15

Acetone

Concen: 4.478 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.00 min

Lab File: VL033191.D

Acq: 13 Feb 2019 17:49

Instrument :

MSVOA_L

ClientSampleId :

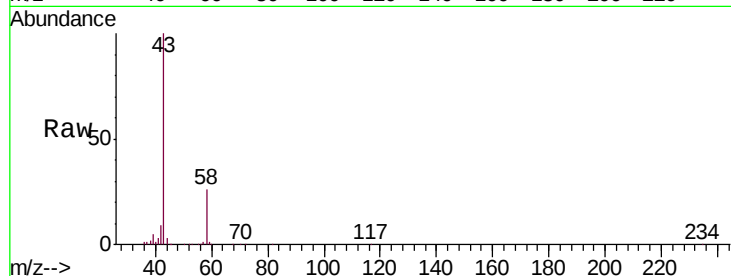
FM-AA

Tgt Ion: 43 Resp: 495101

Ion Ratio Lower Upper

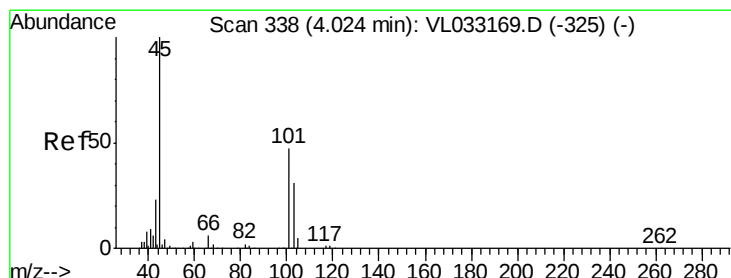
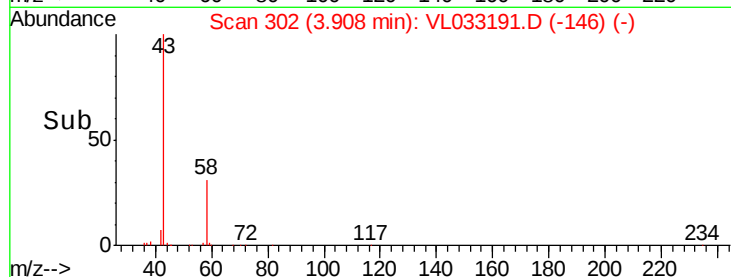
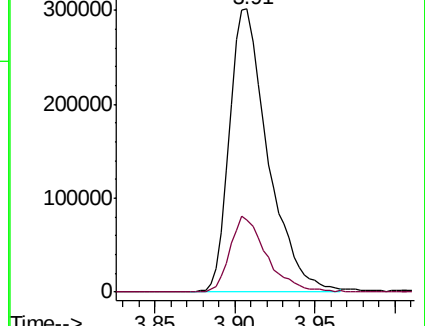
43 100

58 25.6 21.1 31.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 0.317 ppbv

RT: 4.05 min Scan# 345

Delta R.T. 0.02 min

Lab File: VL033191.D

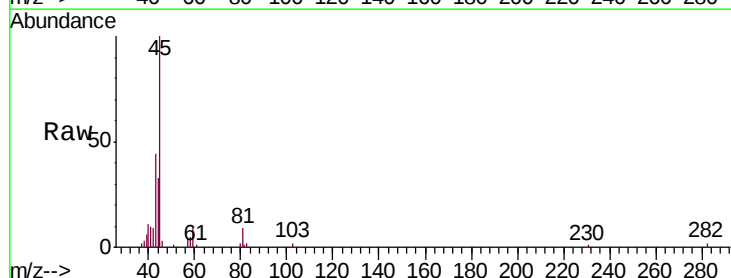
Acq: 13 Feb 2019 17:49

Tgt Ion: 45 Resp: 23742

Ion Ratio Lower Upper

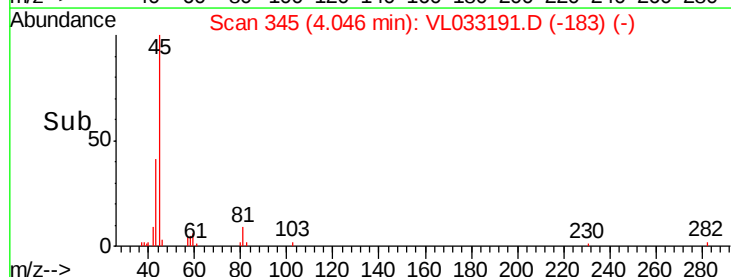
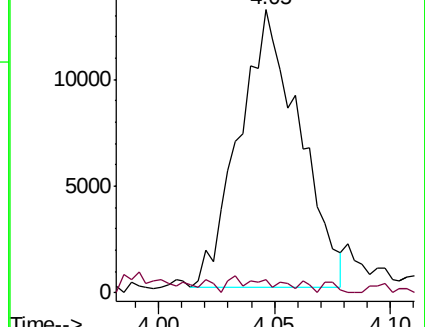
45 100

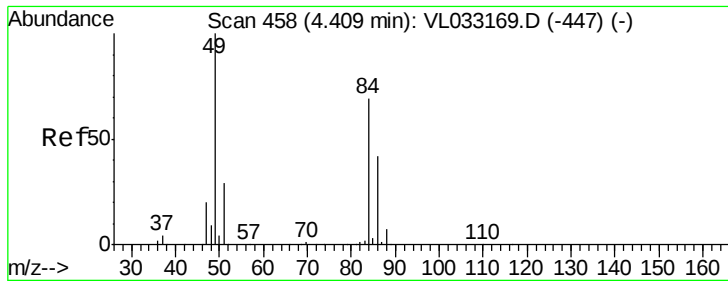
58 537.9 1.5 2.3#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#20

Methylene Chloride

Concen: 1.309 ppbv

RT: 4.41 min Scan# 458

Delta R.T. -0.00 min

Lab File: VL033191.D

Acq: 13 Feb 2019 17:49

Instrument :

MSVOA_L

ClientSampleId :

FM-AA

Tgt Ion: 84 Resp: 57568

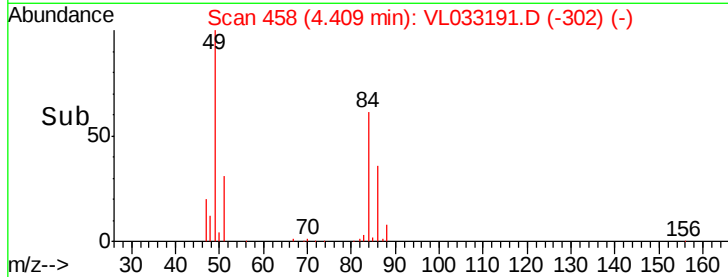
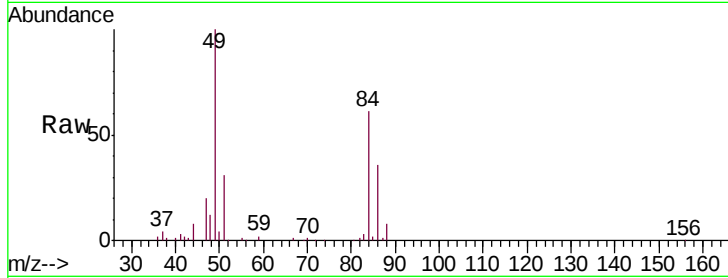
Ion Ratio Lower Upper

84 100

49 162.7 115.8 173.8

51 50.7 33.0 49.6#

86 58.7 48.2 72.2

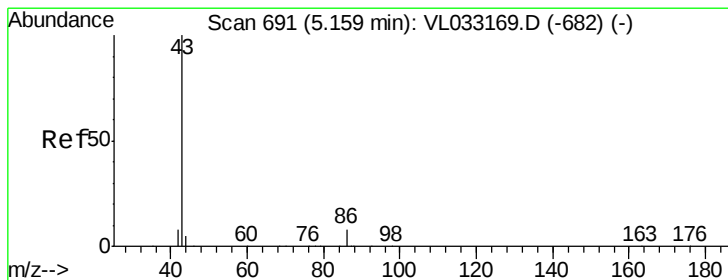
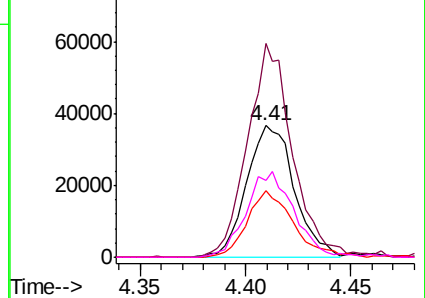


Abundance Ion 84.00 (83.70 to 84.70): VL0

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



#23

Vinyl Acetate

Concen: 0.068 ppbv

RT: 5.14 min Scan# 686

Delta R.T. -0.02 min

Lab File: VL033191.D

Acq: 13 Feb 2019 17:49

Tgt Ion: 43 Resp: 13074

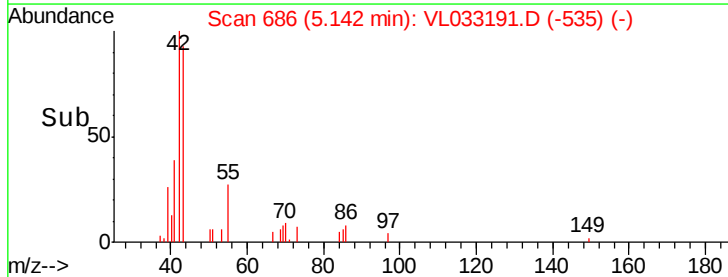
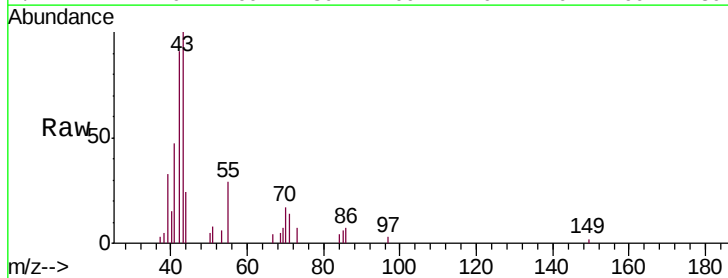
Ion Ratio Lower Upper

43 100

86 6.9 5.8 8.8

42 90.6 7.4 11.0#

44 0.0 3.7 5.5#

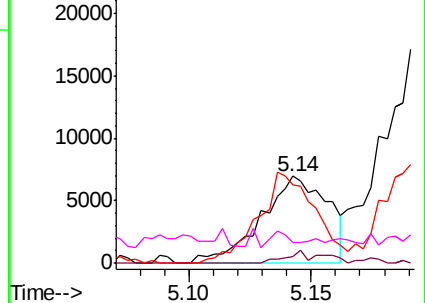


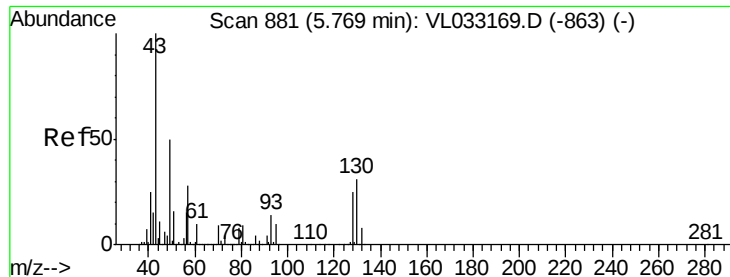
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0

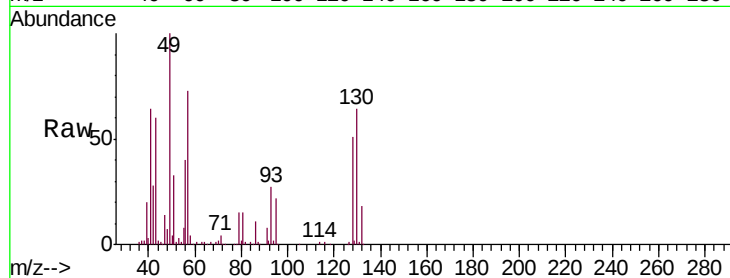




#25
Ethyl Acetate
Concen: 0.730 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.01 min
Lab File: VL033191.D
Acq: 13 Feb 2019 17:49

Instrument :
MSVOA_L
ClientSampleId :
FM-AA

Tgt Ion:	43	Resp:	181604
Ion	Ratio	Lower	Upper
43	100		
45	3.2	7.9	11.9#
61	2.2	7.5	11.3#
70	2.6	5.8	8.8#



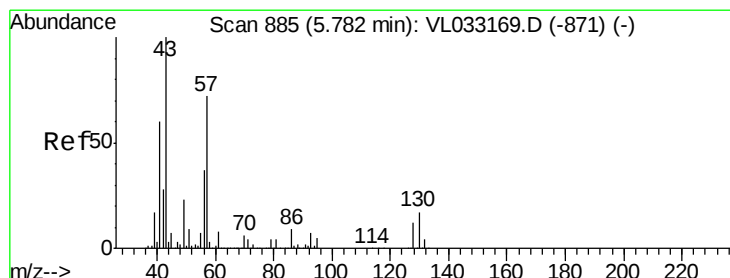
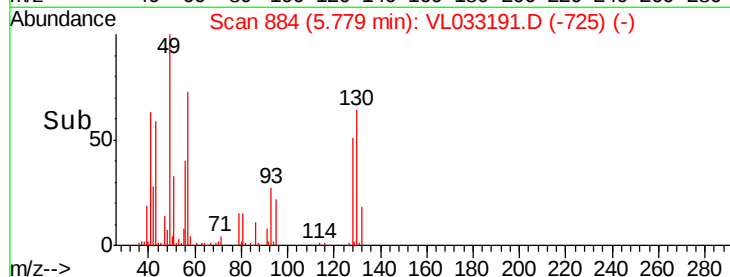
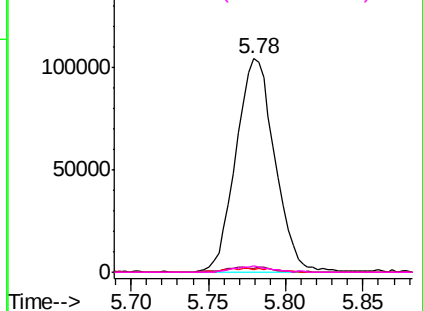
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

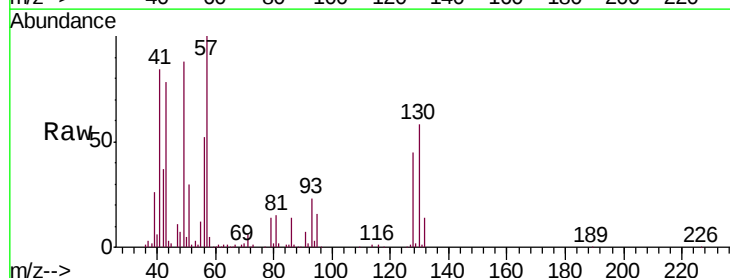
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 1.862 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.00 min
Lab File: VL033191.D
Acq: 13 Feb 2019 17:49

Tgt Ion:	57	Resp:	217324
Ion	Ratio	Lower	Upper
57	100		
41	91.0	69.4	104.2
43	83.9	176.7	265.1#
56	53.2	41.4	62.0



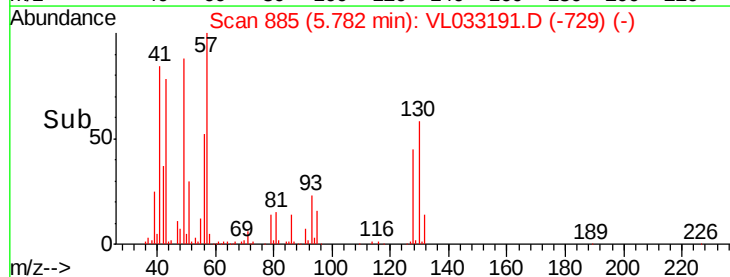
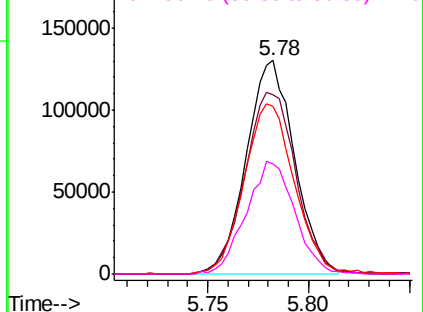
Abundance

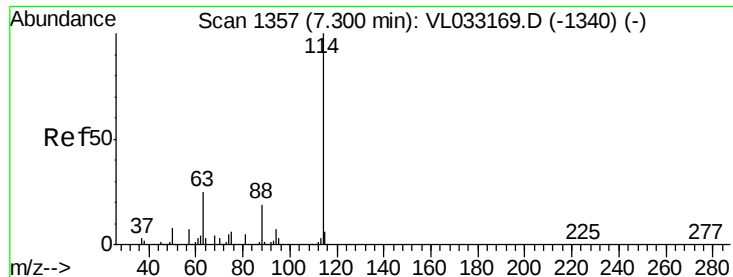
Ion 57.10 (56.80 to 57.80): VL0

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

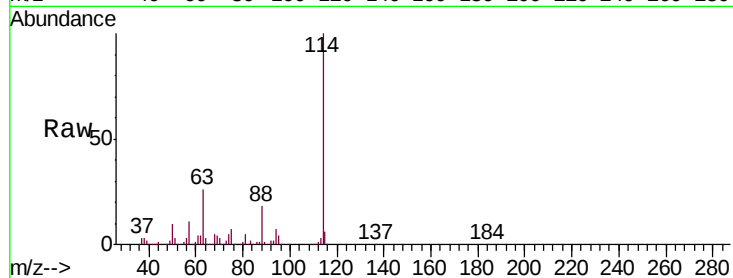




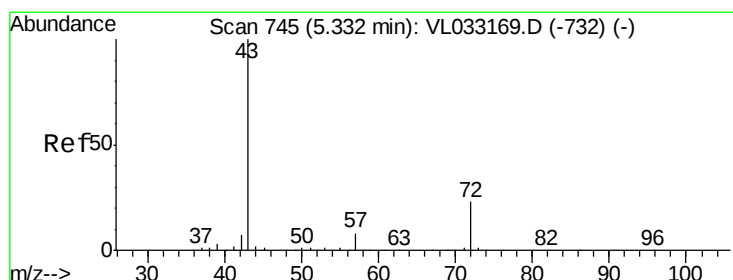
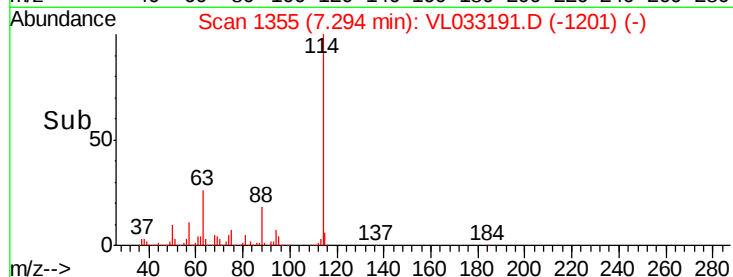
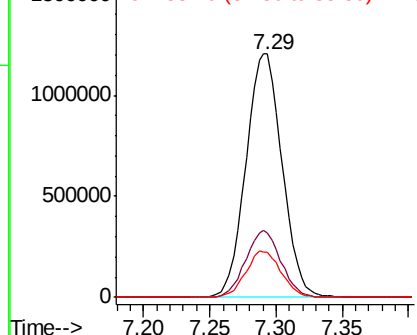
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.01 min
 Lab File: VL033191.D
 Acq: 13 Feb 2019 17:49

Instrument :
 MSVOA_L
 ClientSampleId :
 FM-AA

Tgt Ion:114 Resp: 2275670
 Ion Ratio Lower Upper
 114 100
 63 26.9 20.8 31.2
 88 18.6 14.6 22.0

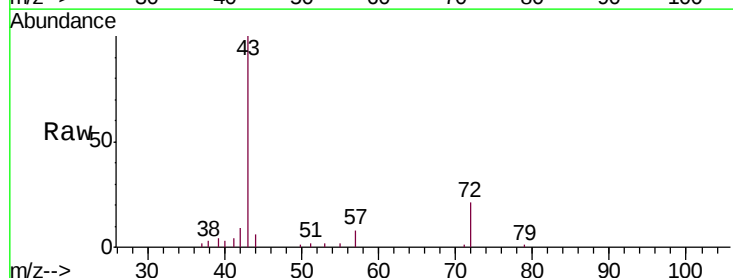


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

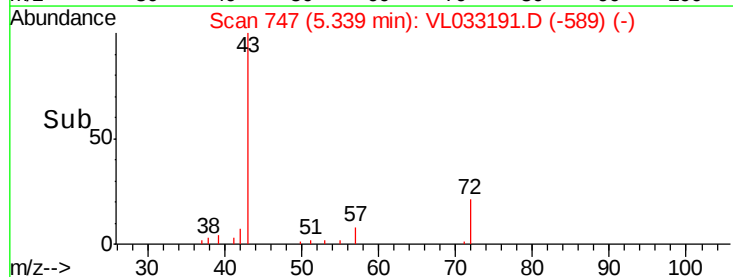
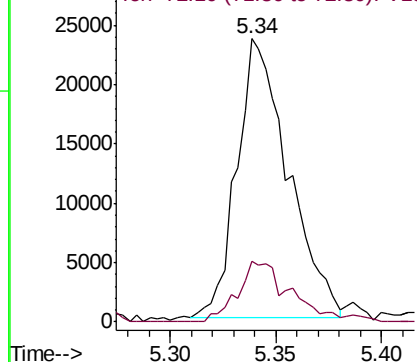


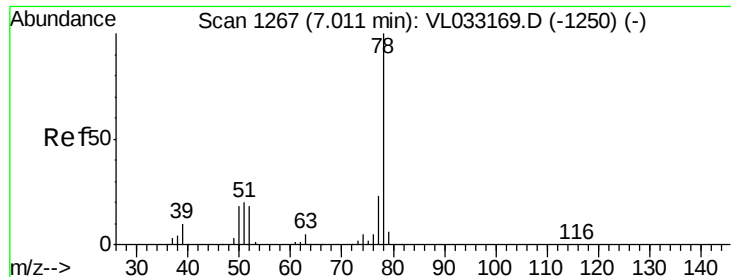
#34
 2-Butanone
 Concen: 0.277 ppbv
 RT: 5.34 min Scan# 747
 Delta R.T. 0.01 min
 Lab File: VL033191.D
 Acq: 13 Feb 2019 17:49

Tgt Ion: 43 Resp: 39953
 Ion Ratio Lower Upper
 43 100
 72 22.7 17.8 26.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.230 ppbv

RT: 7.00 min Scan# 1264

Delta R.T. -0.01 min

Lab File: VL033191.D

Acq: 13 Feb 2019 17:49

Instrument :

MSVOA_L

ClientSampleId :

FM-AA

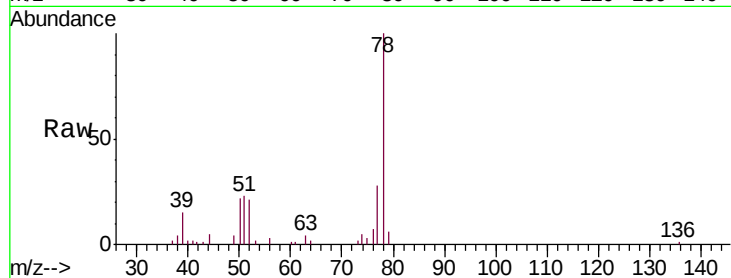
Tgt Ion: 78 Resp: 52977

Ion Ratio Lower Upper

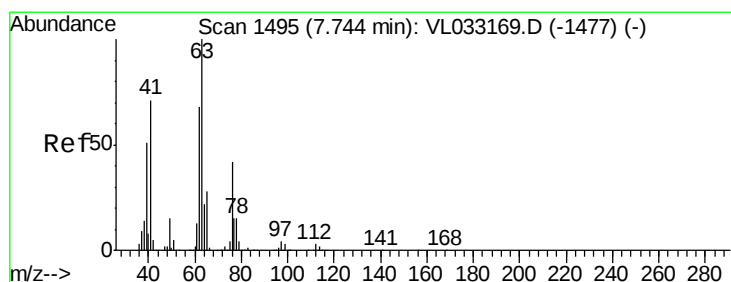
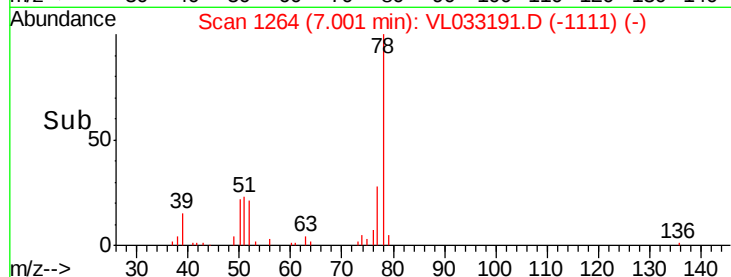
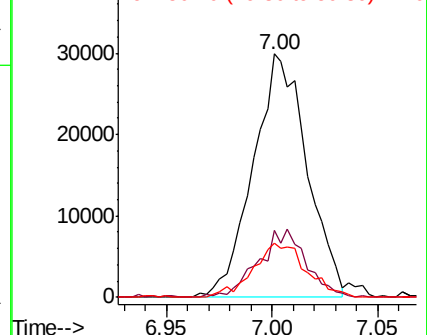
78 100

77 27.6 18.0 27.0#

50 21.0 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



#39

1,2-Dichloropropane

Concen: 6.682 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.45 min

Lab File: VL033191.D

Acq: 13 Feb 2019 17:49

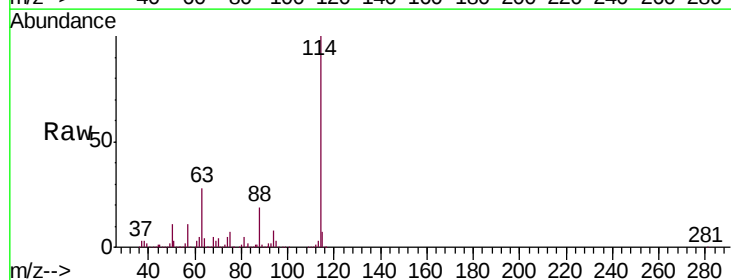
Tgt Ion: 63 Resp: 608642

Ion Ratio Lower Upper

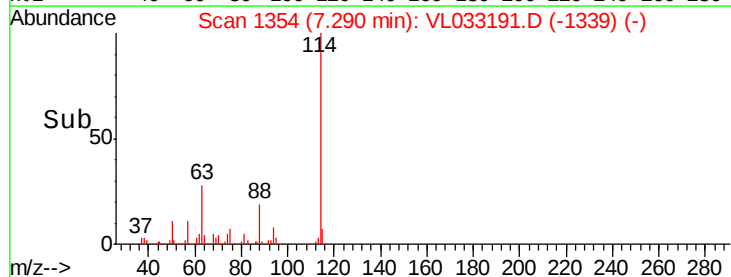
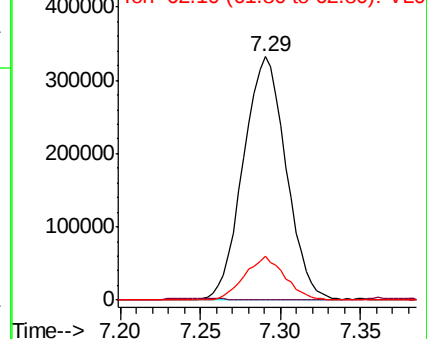
63 100

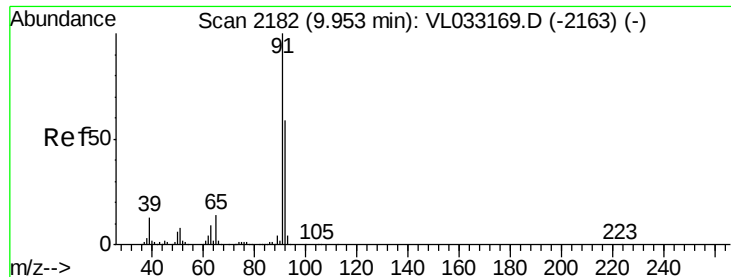
41 0.0 56.4 84.6#

62 17.9 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: 1.163 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.01 min

Lab File: VL033191.D

Acq: 13 Feb 2019 17:49

Instrument :

MSVOA_L

ClientSampleId :

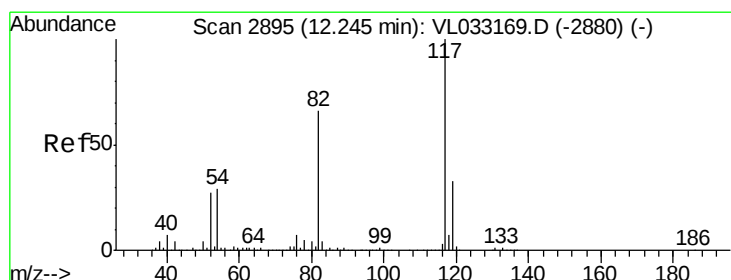
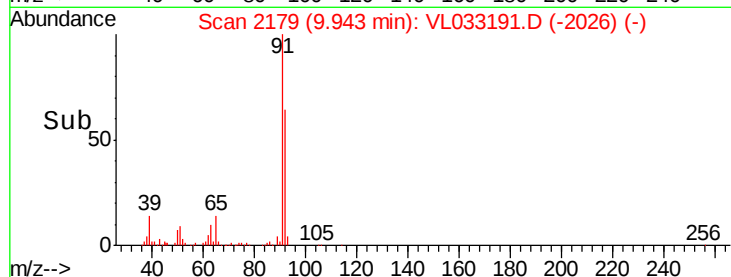
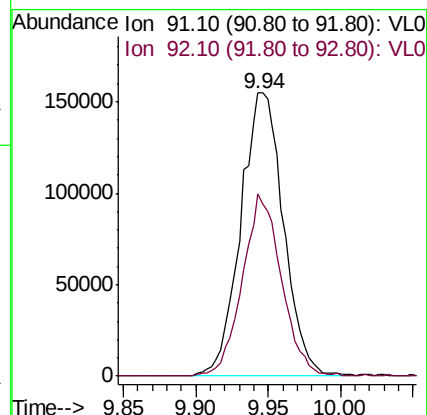
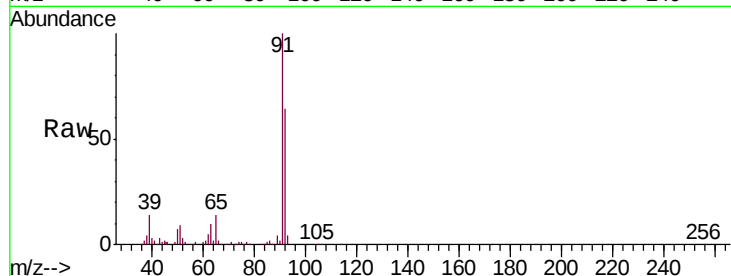
FM-AA

Tgt Ion: 91 Resp: 317721

Ion Ratio Lower Upper

91 100

92 58.7 48.0 72.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL033191.D

Acq: 13 Feb 2019 17:49

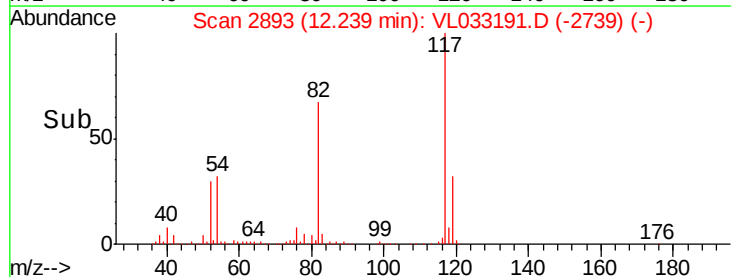
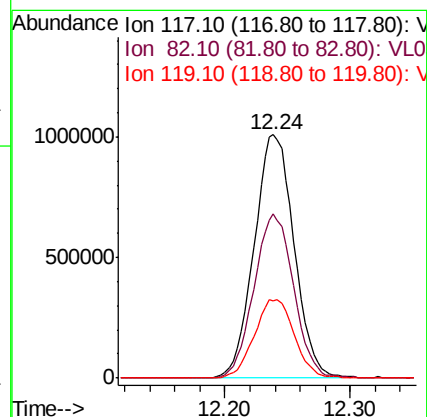
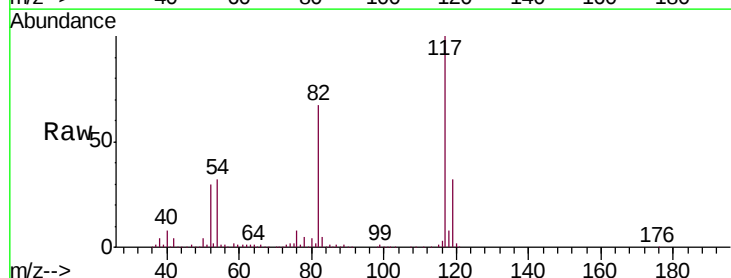
Tgt Ion: 117 Resp: 2230317

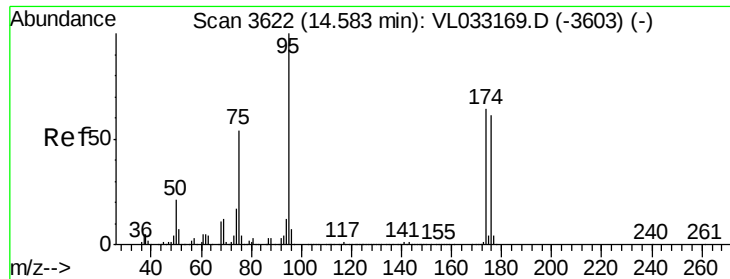
Ion Ratio Lower Upper

117 100

82 67.5 49.5 74.3

119 32.7 24.4 36.6

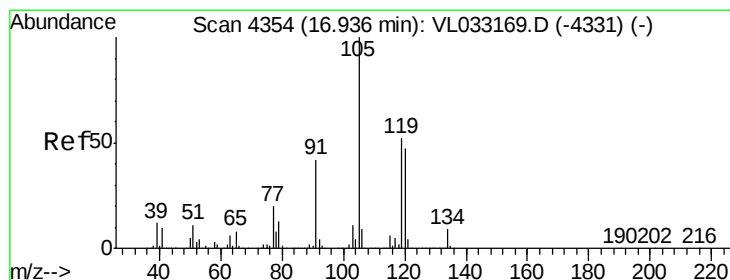
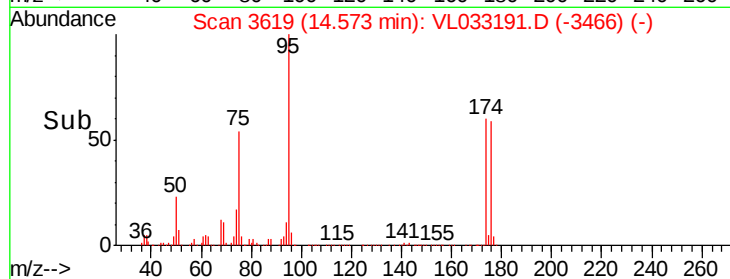
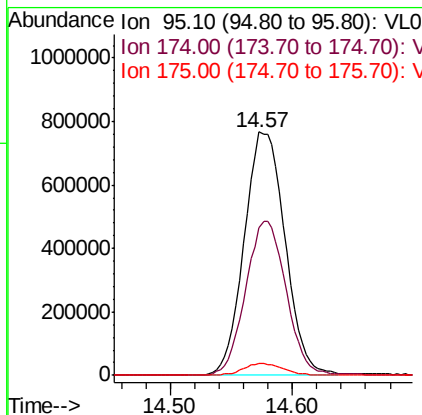
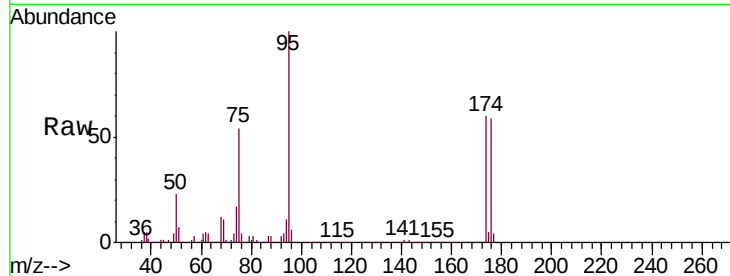




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.332 ppbv
 RT: 14.57 min Scan# 3619
 Delta R.T. -0.01 min
 Lab File: VL033191.D
 Acq: 13 Feb 2019 17:49

Instrument :
 MSVOA_L
 ClientSampleId :
 FM-AA

Tgt Ion: 95 Resp: 1774730
 Ion Ratio Lower Upper
 95 100
 174 63.1 51.2 76.8
 175 4.8 3.8 5.6



#74
 1,2,4-Trimethylbenzene
 Concen: 0.032 ppbv
 RT: 16.93 min Scan# 4353
 Delta R.T. -0.00 min
 Lab File: VL033191.D
 Acq: 13 Feb 2019 17:49

Tgt Ion: 105 Resp: 10715
 Ion Ratio Lower Upper
 105 100
 120 44.1 37.9 56.9
 91 11.5 34.0 51.0#
 77 22.9 15.7 23.5

