

Data File : VL033970.D
Acq On : 26 Jun 2019 16:42
Operator : SY/AP
Sample : K3538-02RE
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
INDOOR-AIRRE

Quant Time: Jun 27 01:23:34 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL060719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 07 08:53:27 2019
QLast Update : Fri Jun 07 08:53:27 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	648926	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.26	114	1499235	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.21	117	1285181	10.00	ppbv	-0.01

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.55 95 1130739 10.71 ppbv -0.02
Spiked Amount 10.000 Range 65 - 135 Recovery = 107.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.00	51	41837	0.548	ppbv	100
4) Chloromethane	3.16	50	70311	1.614	ppbv	98
9) Propene	3.22	41	463610	16.219	ppbv	94
11) Trichlorofluoromethane	3.99	101	37606	0.277	ppbv #	81
12) 1,1,2-Trichlorotrifluoroet	4.53	101	3983	0.043	ppbv #	71
13) Ethanol	3.63	45	707266	76.047	ppbv	96
15) Acetone	3.89	43	402479	4.253	ppbv #	52
16) 1,3-Butadiene	3.33	39	63197	1.754	ppbv #	16
19) Isopropyl Alcohol	4.02	45	53937	0.998	ppbv #	1
20) Methylene Chloride	4.39	84	431078	11.680	ppbv	99
21) Allyl Chloride	4.42	41	9382	0.175	ppbv #	1
23) Vinyl Acetate	5.11	43	27481	0.250	ppbv #	1
25) Ethyl Acetate	5.75	43	14571	0.101	ppbv #	83
26) Hexane	5.75	57	15171	0.231	ppbv #	36
27) Carbon Disulfide	4.61	76	12730	0.140	ppbv #	53
29) Chloroform	5.82	83	3583	0.032	ppbv	97
34) 2-Butanone	5.31	43	8797	0.104	ppbv #	66
39) 1,2-Dichloropropane	7.26	63	399924	9.048	ppbv #	26
41) Tetrahydrofuran	6.14	42	12120	0.282	ppbv	94

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

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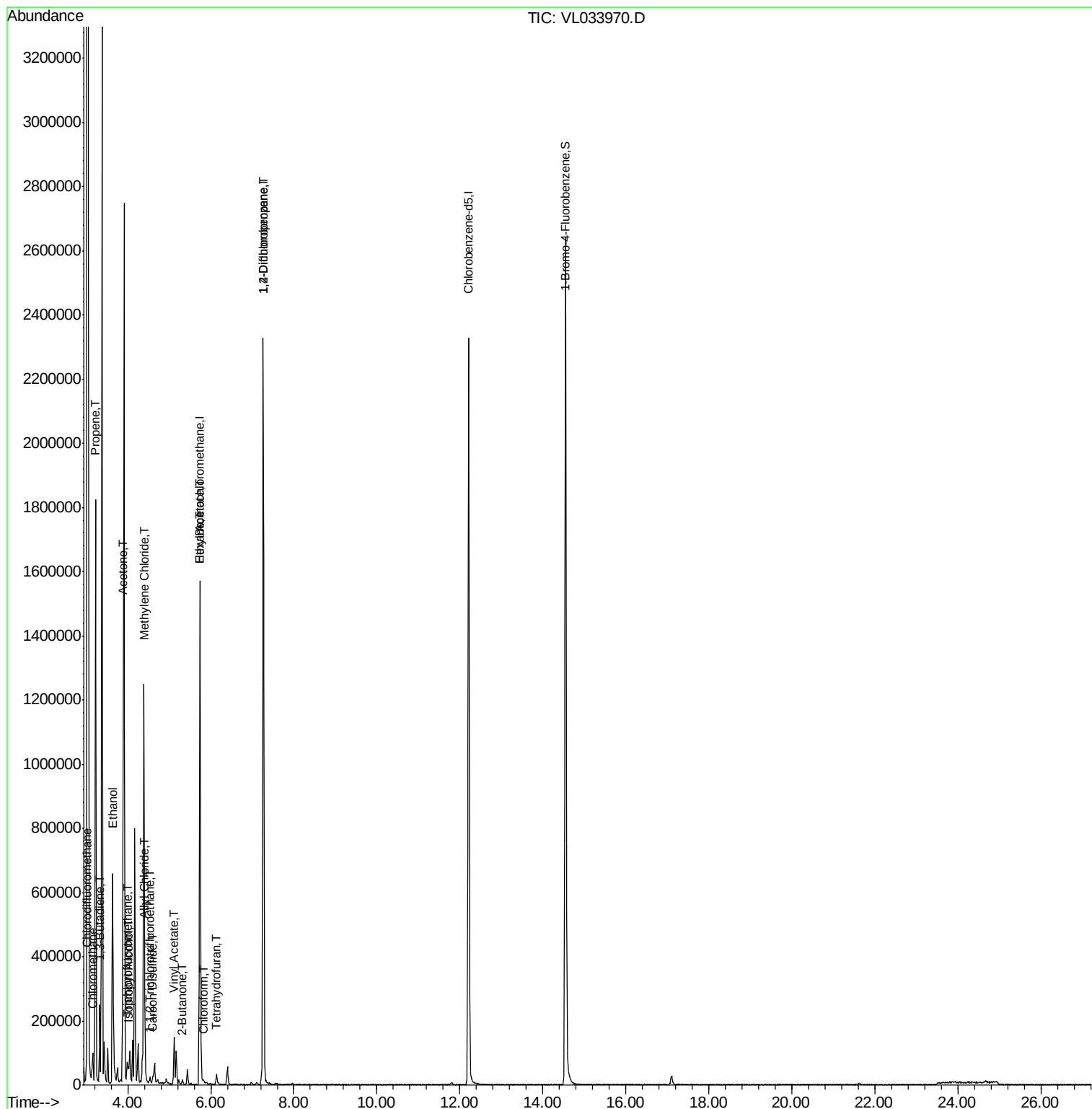
Quant Time: Jun 27 01:23:34 2019

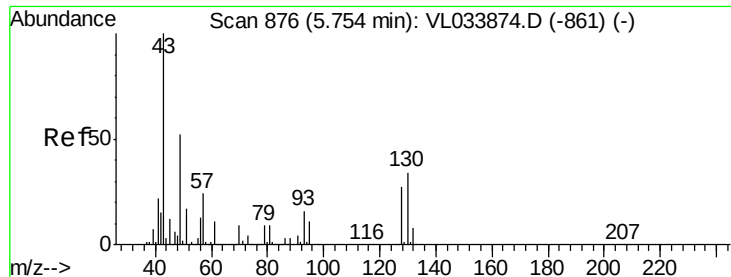
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_L\METHODS\VL060719AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Jun 07 08:53:27 2019

QLast Update : Fri Jun 07 08:53:27 2019

Response via : Initial Calibration

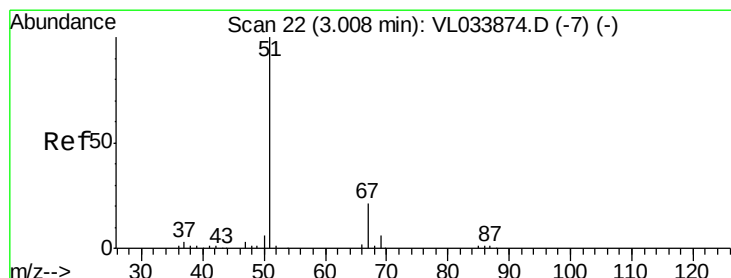
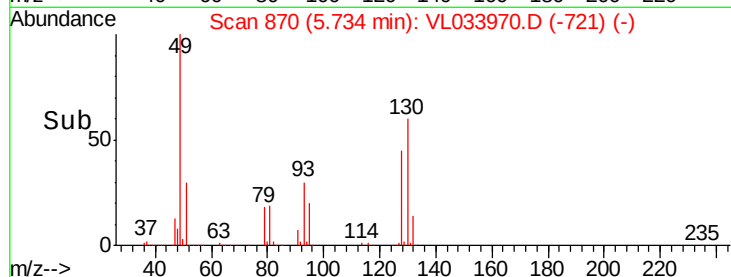
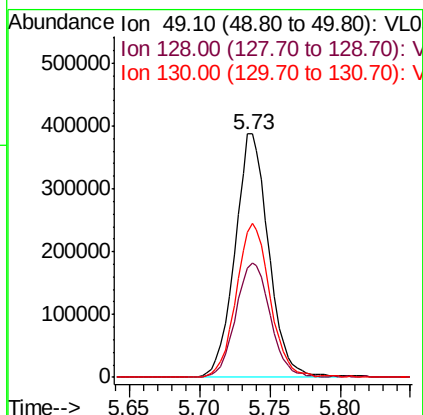
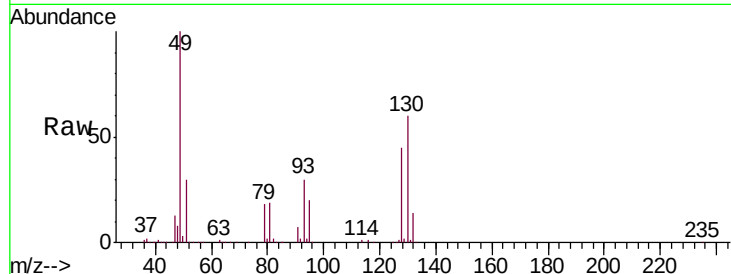




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.73 min Scan# 870
Delta R.T. -0.02 min
Lab File: VL033970.D
Acq: 26 Jun 2019 16:42

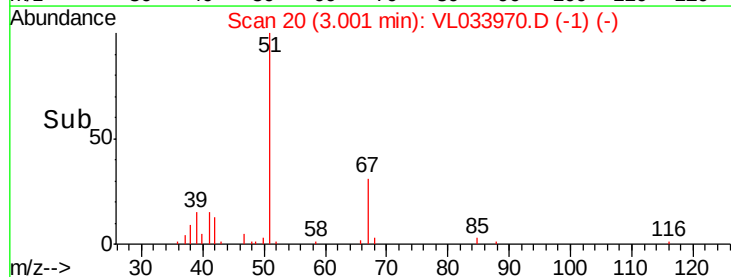
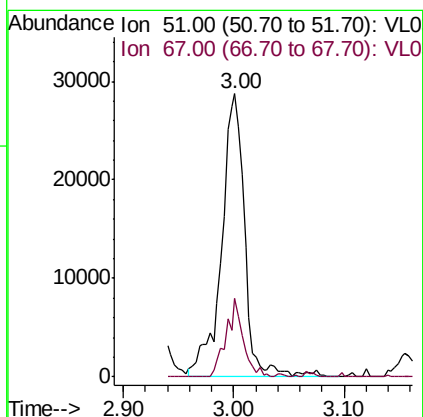
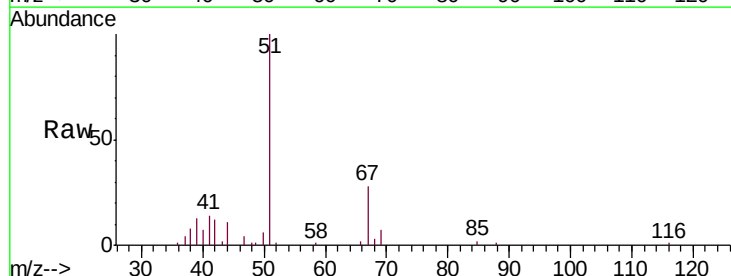
Instrument :
MSVOA_L
ClientSampleId :
INDOOR-AIRRE

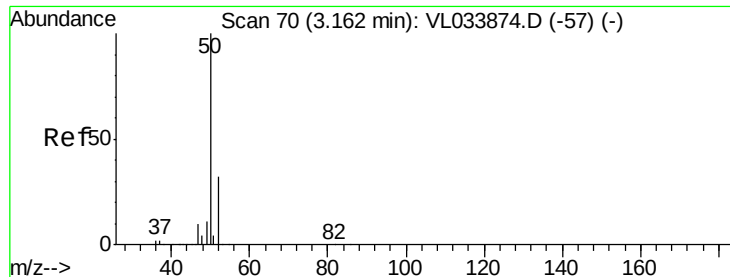
Tgt Ion: 49 Resp: 648926
Ion Ratio Lower Upper
49 100
128 48.1 25.5 76.5
130 64.0 32.5 97.4



#3
Chlorodifluoromethane
Concen: 0.548 ppbv
RT: 3.00 min Scan# 20
Delta R.T. -0.01 min
Lab File: VL033970.D
Acq: 26 Jun 2019 16:42

Tgt Ion: 51 Resp: 41837
Ion Ratio Lower Upper
51 100
67 20.5 16.4 24.6





#4

Chloromethane

Concen: 1.614 ppbv

RT: 3.16 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL033970.D

Acq: 26 Jun 2019 16:42

Instrument :

MSVOA_L

ClientSampleId :

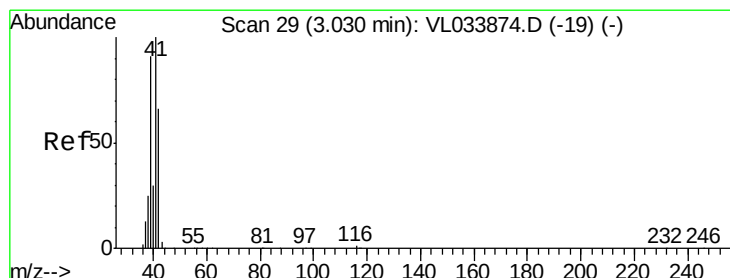
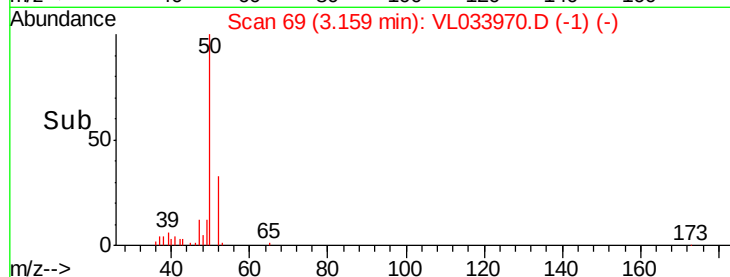
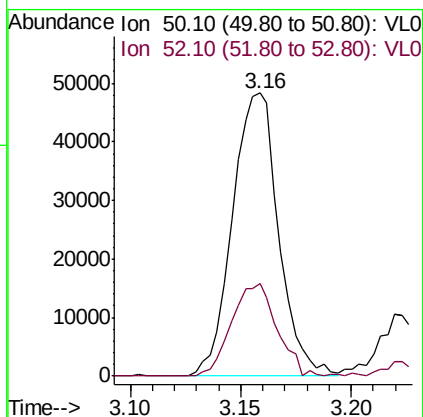
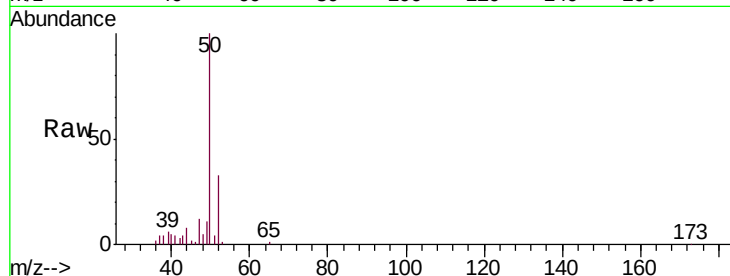
INDOOR-AIRRE

Tgt Ion: 50 Resp: 70311

Ion Ratio Lower Upper

50 100

52 32.7 25.4 38.0



#9

Propene

Concen: 16.219 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.19 min

Lab File: VL033970.D

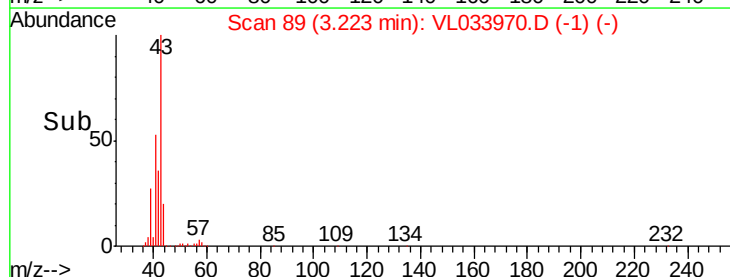
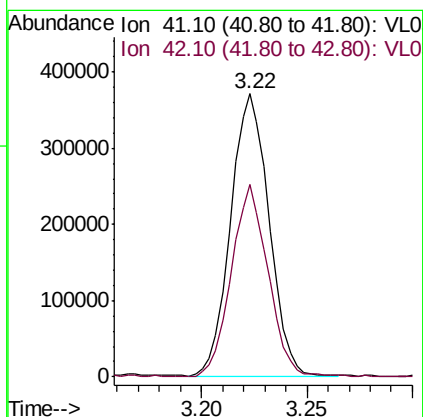
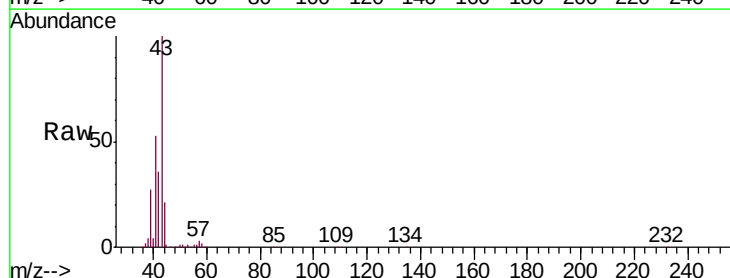
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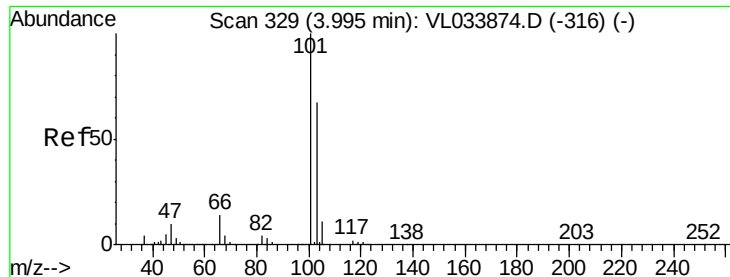
Tgt Ion: 41 Resp: 463610

Ion Ratio Lower Upper

41 100

42 65.4 56.3 84.5

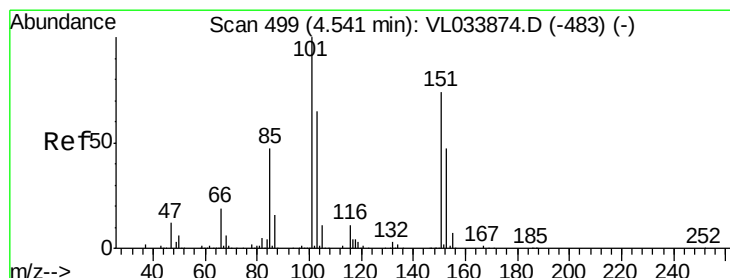
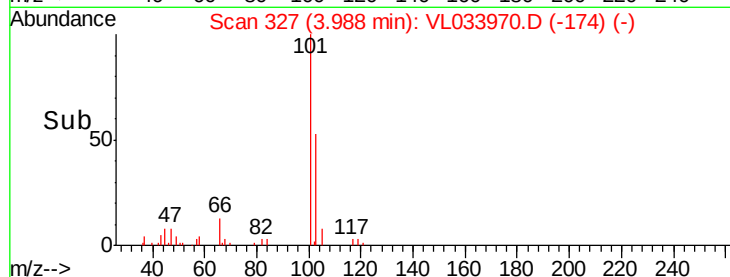
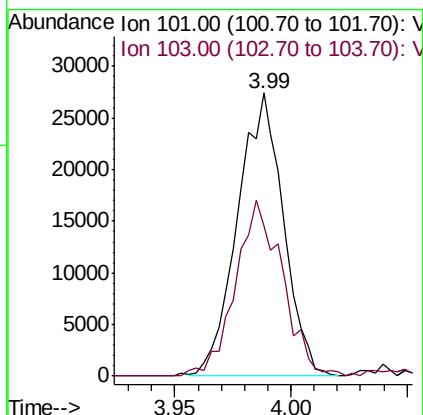
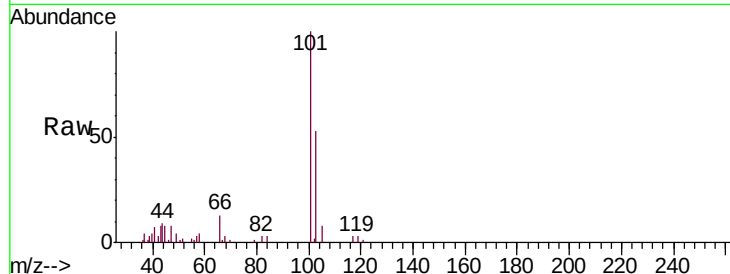




#11
 Trichlorofluoromethane
 Concen: 0.277 ppbv
 RT: 3.99 min Scan# 327
 Delta R.T. -0.01 min
 Lab File: VL033970.D
 Acq: 26 Jun 2019 16:42

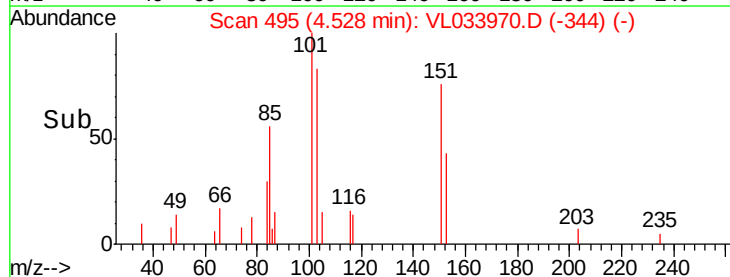
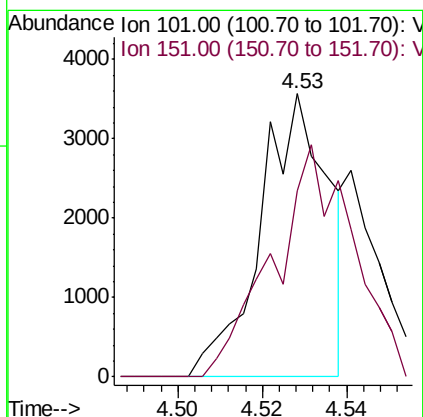
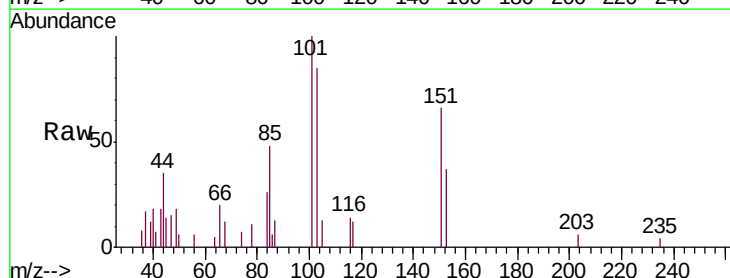
Instrument :
 MSVOA_L
 ClientSampleId :
 INDOOR-AIRRE

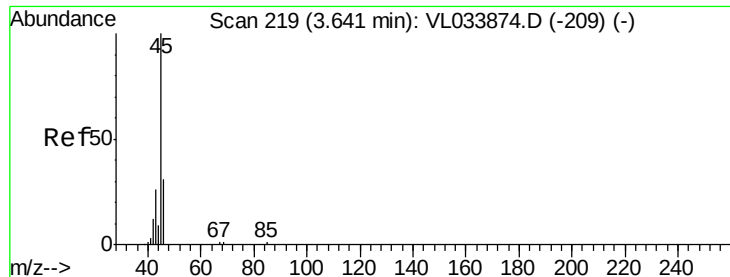
Tgt Ion:101 Resp: 37606
 Ion Ratio Lower Upper
 101 100
 103 51.8 53.6 80.4#



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.043 ppbv
 RT: 4.53 min Scan# 495
 Delta R.T. -0.01 min
 Lab File: VL033970.D
 Acq: 26 Jun 2019 16:42

Tgt Ion:101 Resp: 3983
 Ion Ratio Lower Upper
 101 100
 151 97.9 58.6 87.8#

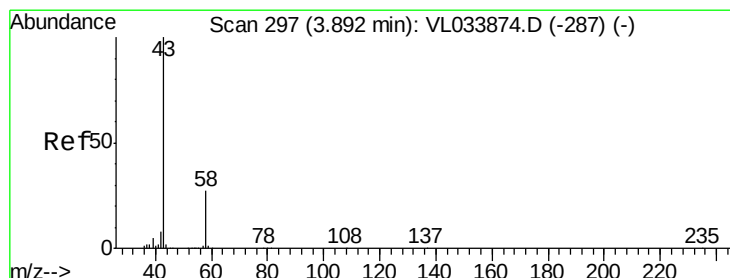
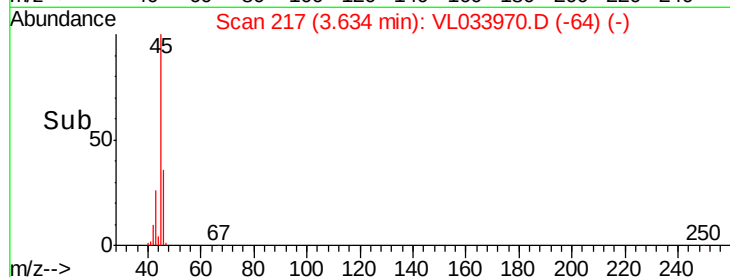
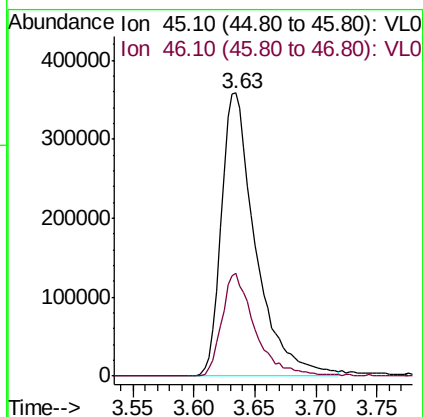
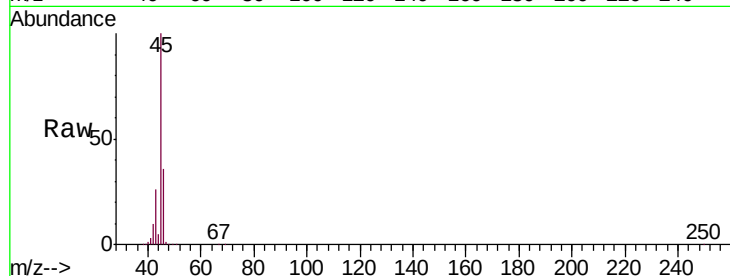




#13
Ethanol
Concen: 76.047 ppbv
RT: 3.63 min Scan# 217
Delta R.T. -0.01 min
Lab File: VL033970.D
Acq: 26 Jun 2019 16:42

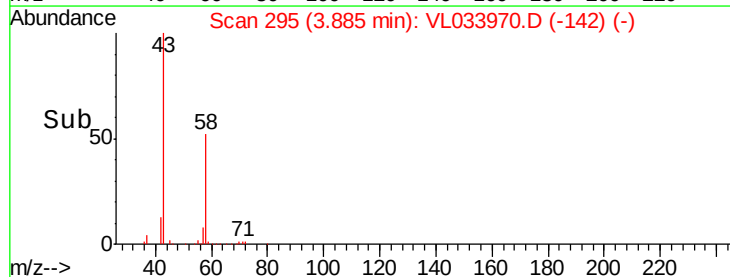
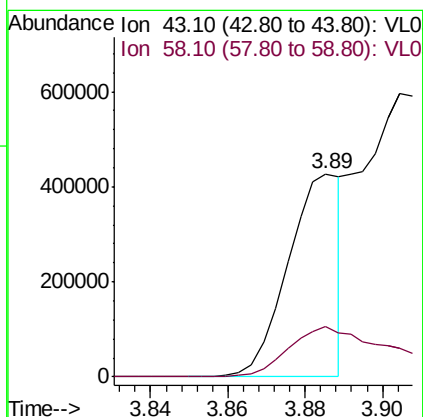
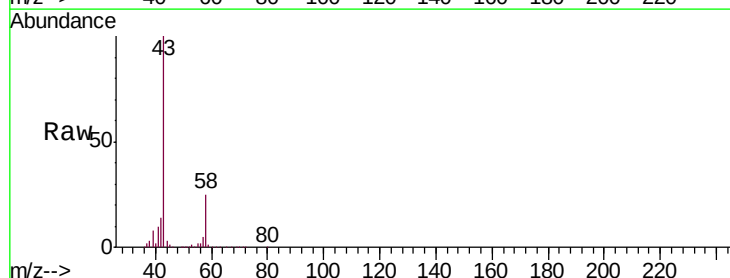
Instrument :
MSVOA_L
ClientSampleId :
INDOOR-AIRRE

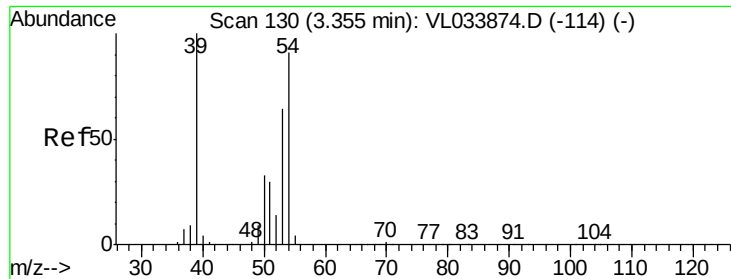
Tgt Ion: 45 Resp: 707266
Ion Ratio Lower Upper
45 100
46 35.7 15.3 61.1



#15
Acetone
Concen: 4.253 ppbv
RT: 3.89 min Scan# 295
Delta R.T. -0.01 min
Lab File: VL033970.D
Acq: 26 Jun 2019 16:42

Tgt Ion: 43 Resp: 402479
Ion Ratio Lower Upper
43 100
58 51.1 21.3 31.9#





#16

1,3-Butadiene

Concen: 1.754 ppbv

RT: 3.33 min Scan# 122

Delta R.T. -0.03 min

Lab File: VL033970.D

Acq: 26 Jun 2019 16:42

Instrument :

MSVOA_L

ClientSampleId :

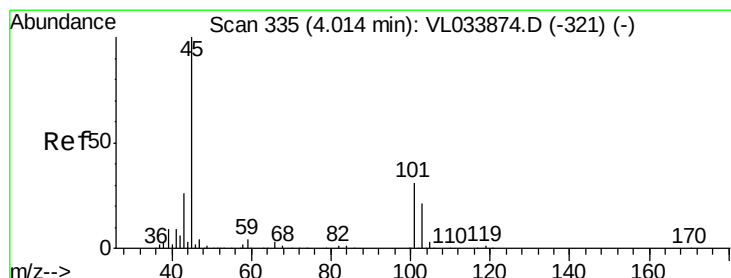
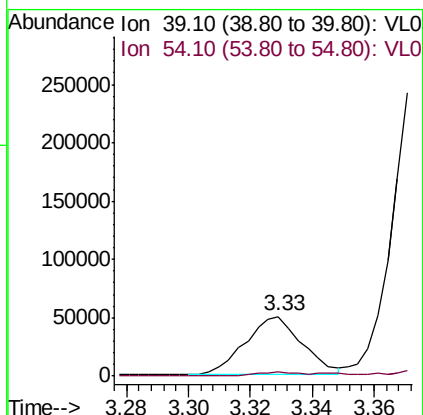
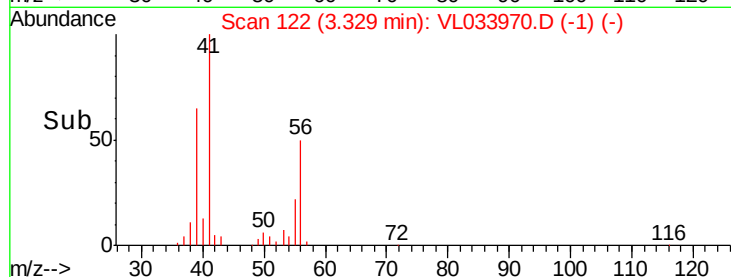
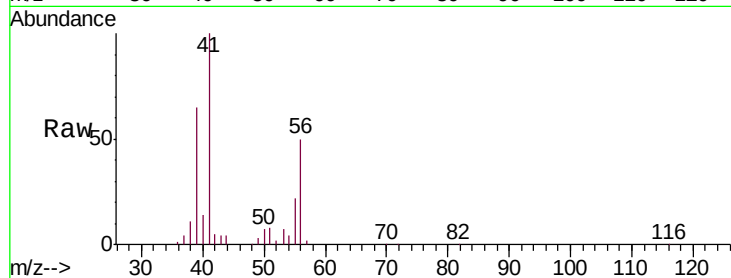
INDOOR-AIRRE

Tgt Ion: 39 Resp: 63197

Ion Ratio Lower Upper

39 100

54 8.8 68.6 103.0#



#19

Isopropyl Alcohol

Concen: 0.998 ppbv

RT: 4.02 min Scan# 336

Delta R.T. 0.00 min

Lab File: VL033970.D

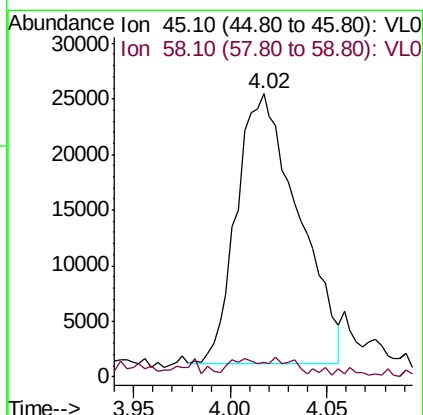
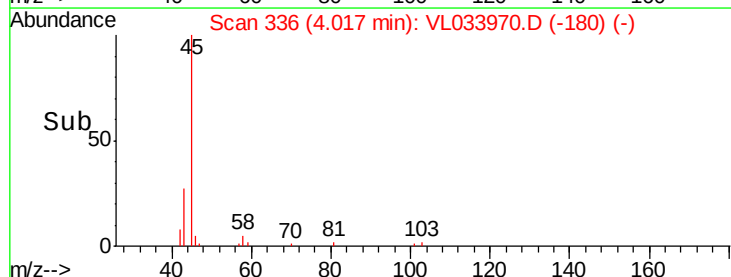
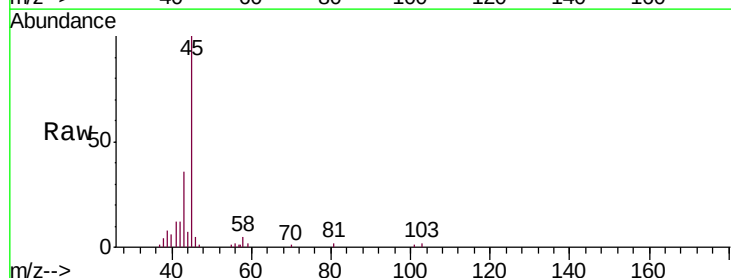
Acq: 26 Jun 2019 16:42

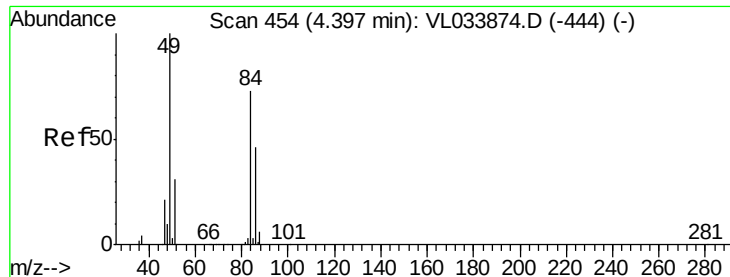
Tgt Ion: 45 Resp: 53937

Ion Ratio Lower Upper

45 100

58 384.7 1.8 2.6#

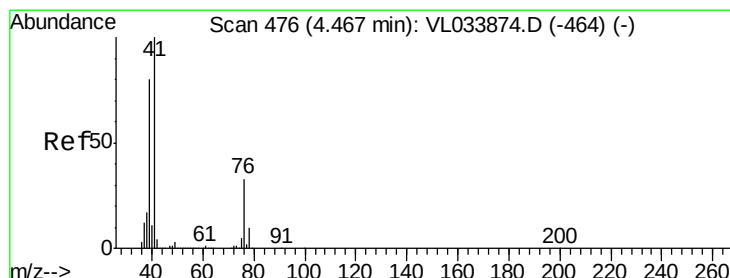
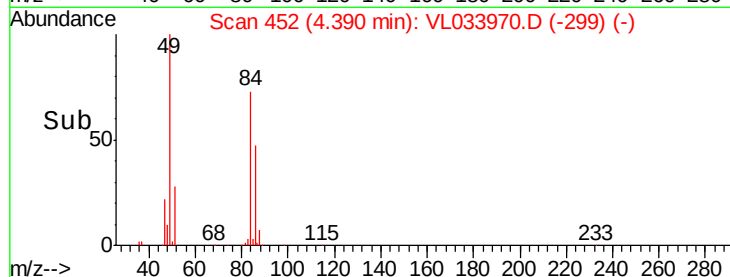
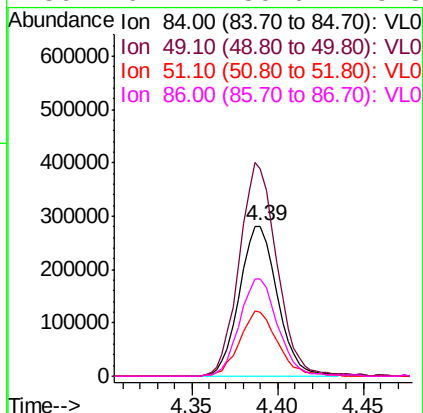
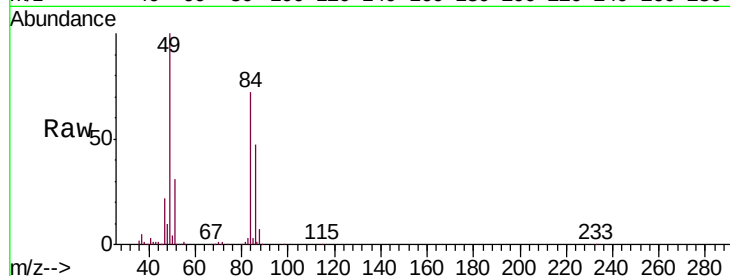




#20
Methylene Chloride
Concen: 11.680 ppbv
RT: 4.39 min Scan# 452
Delta R.T. -0.01 min
Lab File: VL033970.D
Acq: 26 Jun 2019 16:42

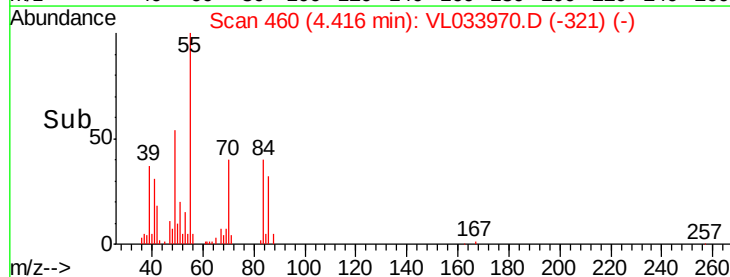
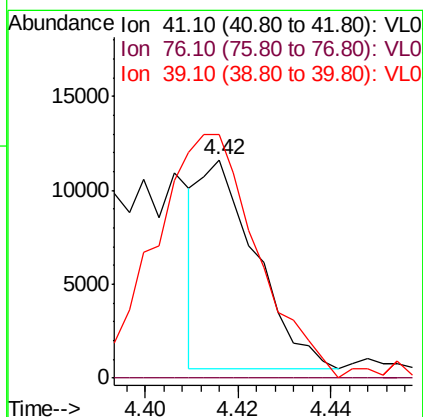
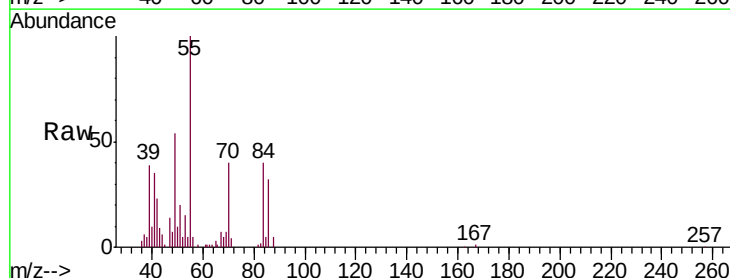
Instrument :
MSVOA_L
ClientSampleId :
INDOOR-AIRRE

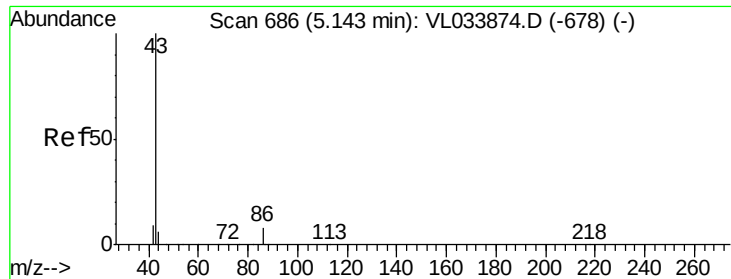
Tgt Ion: 84 Resp: 431078
Ion Ratio Lower Upper
84 100
49 138.2 110.0 165.0
51 42.2 34.6 51.8
86 64.4 50.6 75.8



#21
Allyl Chloride
Concen: 0.175 ppbv
RT: 4.42 min Scan# 460
Delta R.T. -0.05 min
Lab File: VL033970.D
Acq: 26 Jun 2019 16:42

Tgt Ion: 41 Resp: 9382
Ion Ratio Lower Upper
41 100
76 0.0 26.6 39.8#
39 204.9 65.2 97.8#





#23

Vinyl Acetate

Concen: 0.250 ppbv

RT: 5.11 min Scan# 677

Delta R.T. -0.03 min

Lab File: VL033970.D

Acq: 26 Jun 2019 16:42

Instrument :

MSVOA_L

ClientSampleId :

INDOOR-AIRRE

Tgt Ion: 43 Resp: 27481

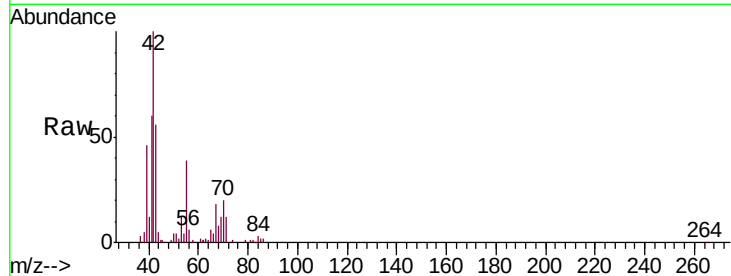
Ion Ratio Lower Upper

43 100

86 3.2 5.8 8.8#

42 181.3 7.8 11.8#

44 8.7 4.2 6.4#

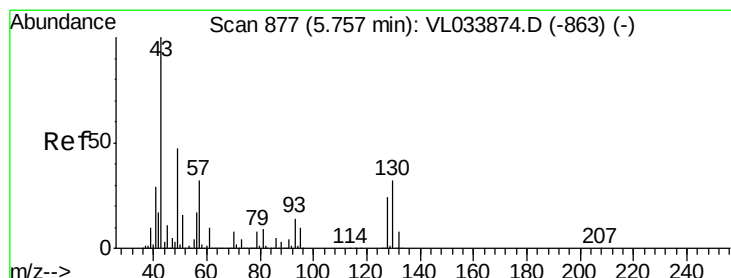
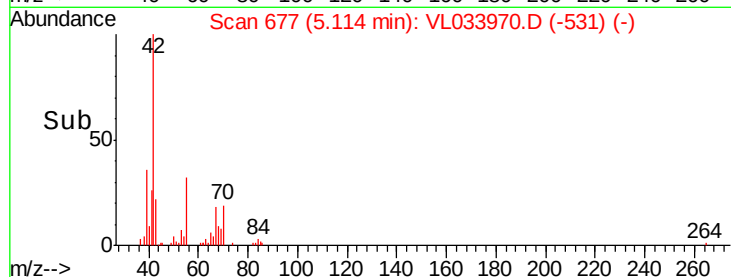
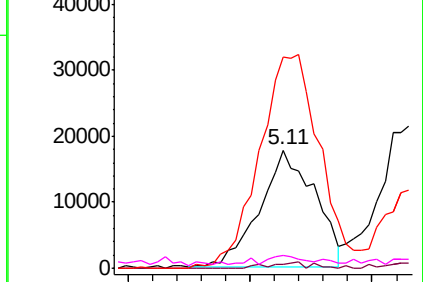


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.101 ppbv

RT: 5.75 min Scan# 875

Delta R.T. -0.01 min

Lab File: VL033970.D

Acq: 26 Jun 2019 16:42

Tgt Ion: 43 Resp: 14571

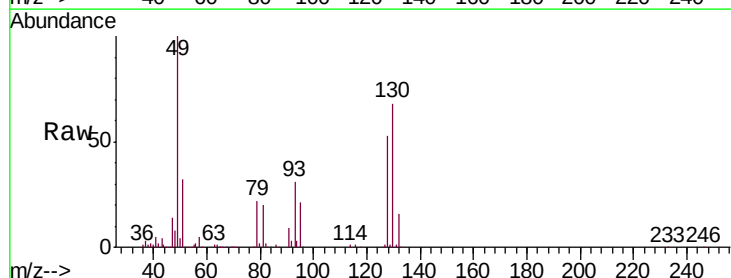
Ion Ratio Lower Upper

43 100

45 4.3 7.9 11.9#

61 1.5 7.8 11.6#

70 3.0 5.8 8.6#

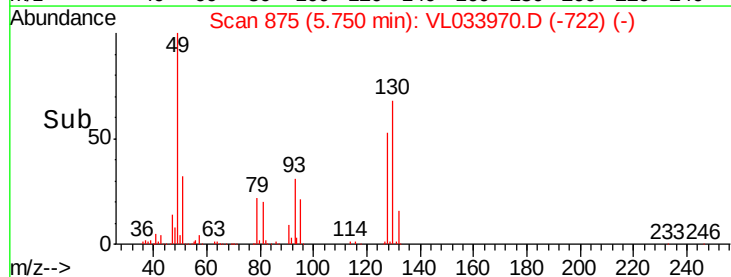
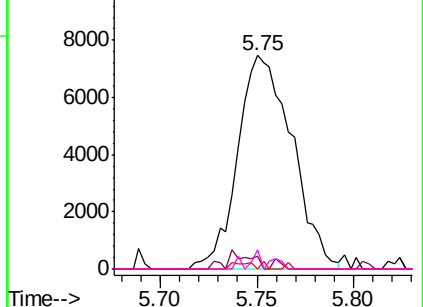


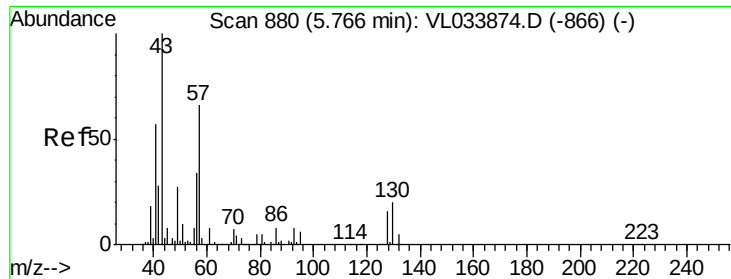
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

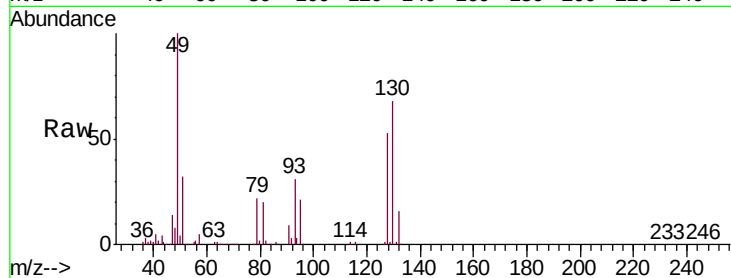




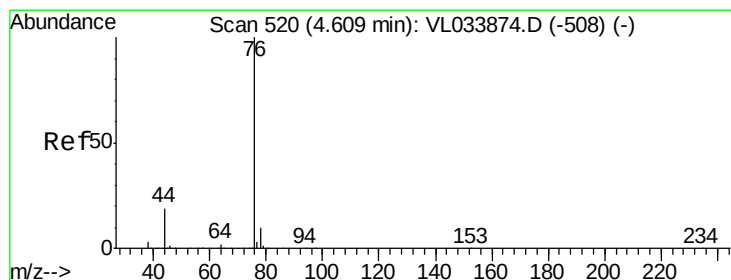
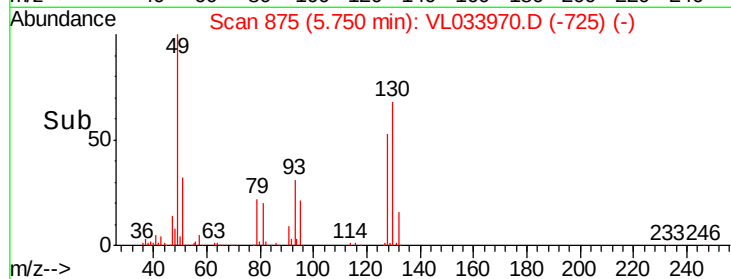
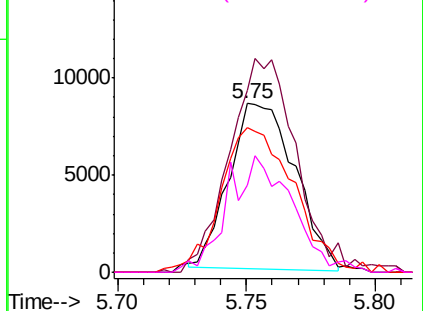
#26
Hexane
Concen: 0.231 ppbv
RT: 5.75 min Scan# 875
Delta R.T. -0.02 min
Lab File: VL033970.D
Acq: 26 Jun 2019 16:42

Instrument :
MSVOA_L
ClientSampleId :
INDOOR-AIRRE

Tgt Ion: 57 Resp: 15171
Ion Ratio Lower Upper
57 100
41 132.8 71.4 107.2#
43 97.2 183.7 275.5#
56 69.7 42.7 64.1#

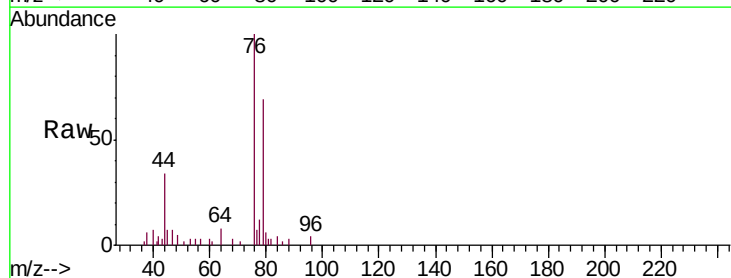


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

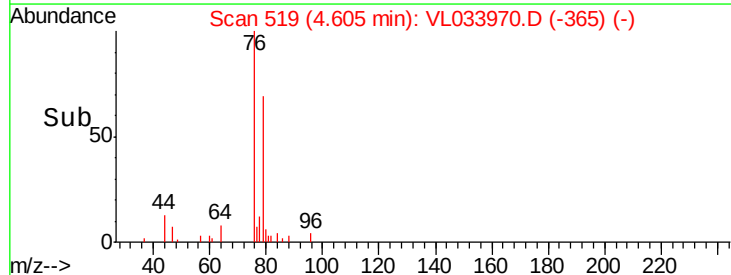
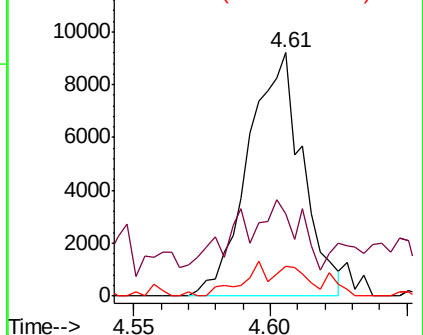


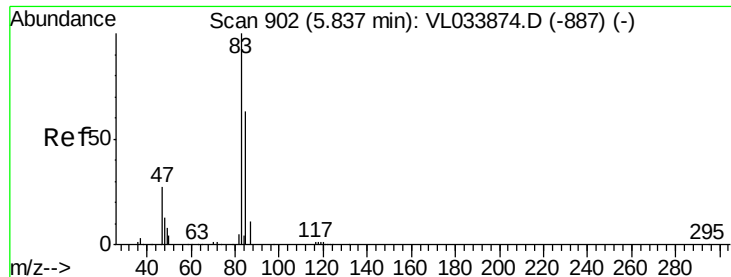
#27
Carbon Disulfide
Concen: 0.140 ppbv
RT: 4.61 min Scan# 519
Delta R.T. -0.00 min
Lab File: VL033970.D
Acq: 26 Jun 2019 16:42

Tgt Ion: 76 Resp: 12730
Ion Ratio Lower Upper
76 100
44 45.4 14.4 21.6#
78 15.7 7.5 11.3#



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0

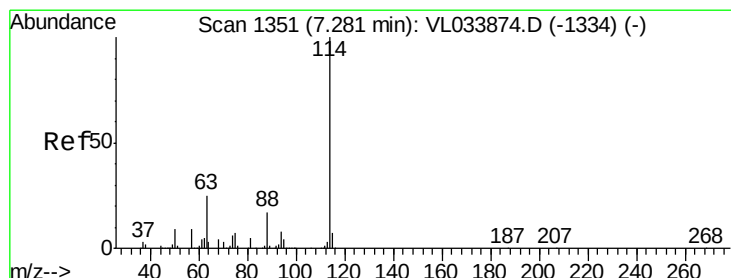
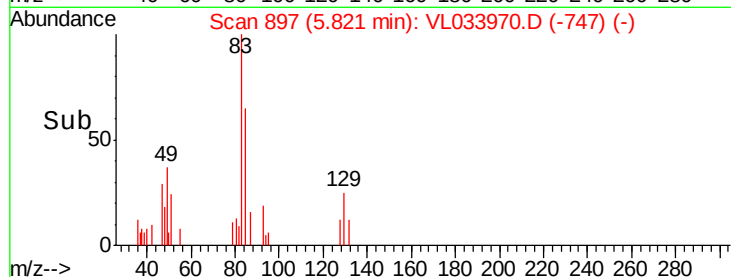
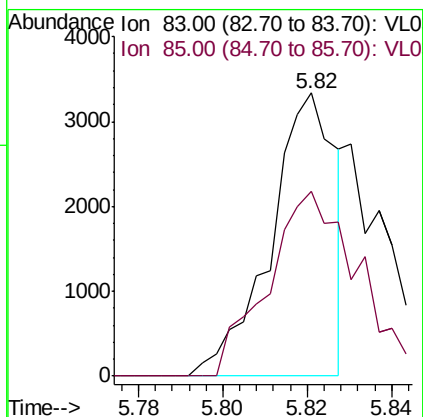
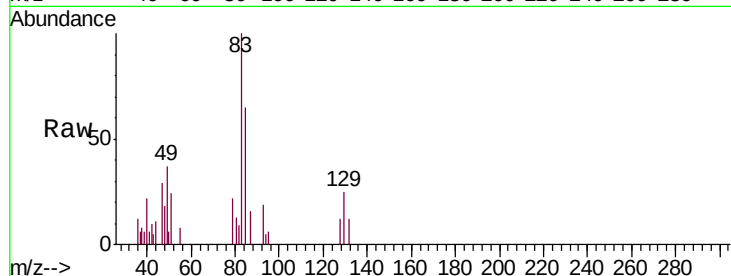




#29
Chloroform
Concen: 0.032 ppbv
RT: 5.82 min Scan# 897
Delta R.T. -0.02 min
Lab File: VL033970.D
Acq: 26 Jun 2019 16:42

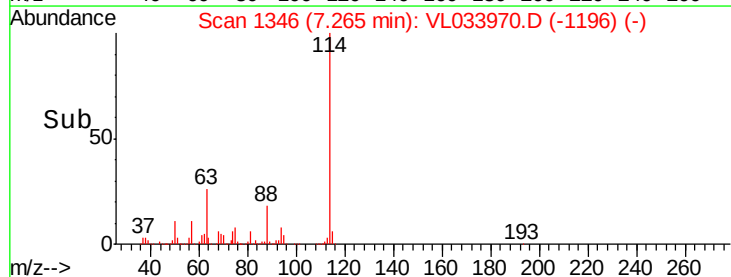
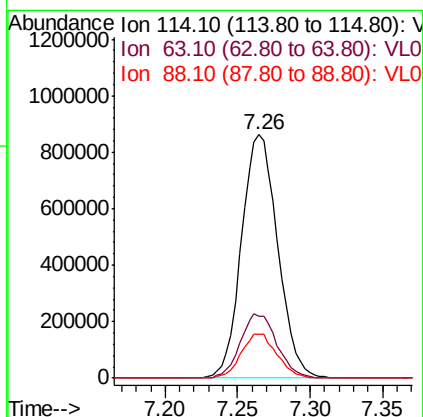
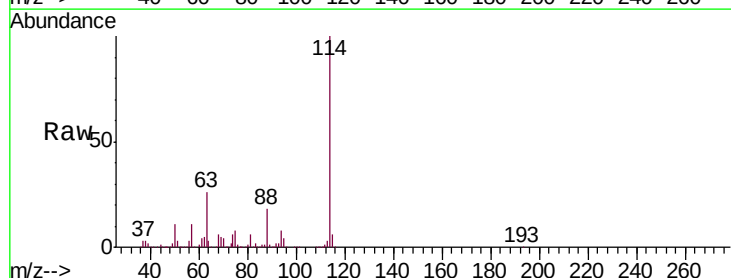
Instrument :
MSVOA_L
ClientSampleId :
INDOOR-AIRRE

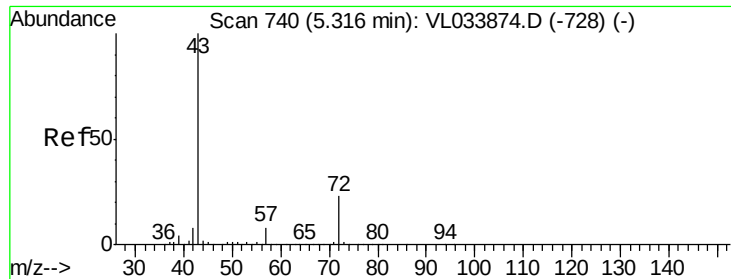
Tgt Ion: 83 Resp: 3583
Ion Ratio Lower Upper
83 100
85 65.1 50.5 75.7



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.26 min Scan# 1346
Delta R.T. -0.02 min
Lab File: VL033970.D
Acq: 26 Jun 2019 16:42

Tgt Ion: 114 Resp: 1499235
Ion Ratio Lower Upper
114 100
63 26.7 21.1 31.7
88 17.9 14.2 21.4

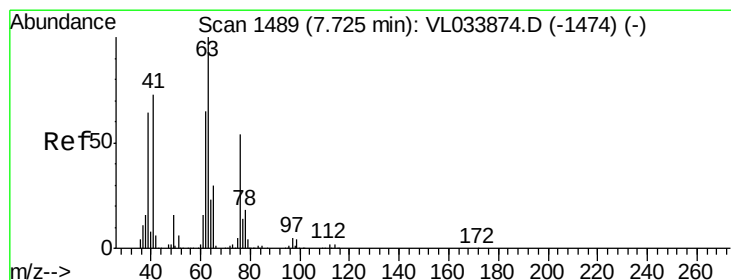
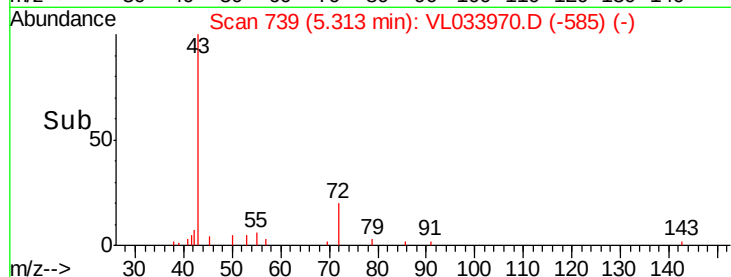
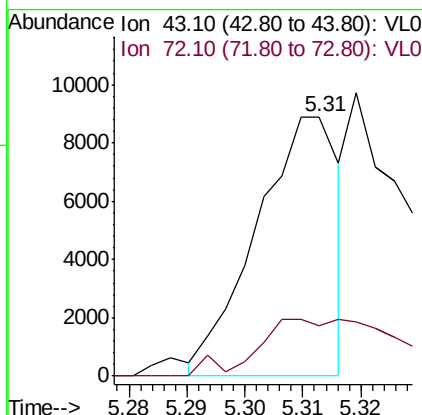
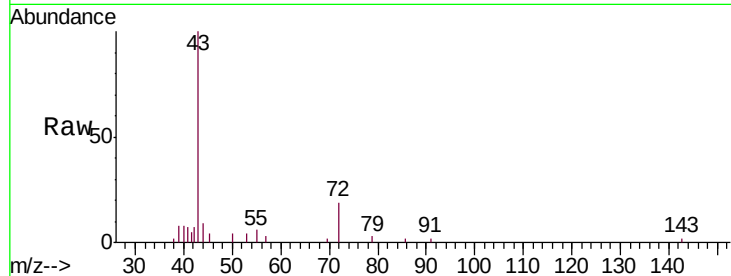




#34
 2-Butanone
 Concen: 0.104 ppbv
 RT: 5.31 min Scan# 739
 Delta R.T. -0.00 min
 Lab File: VL033970.D
 Acq: 26 Jun 2019 16:42

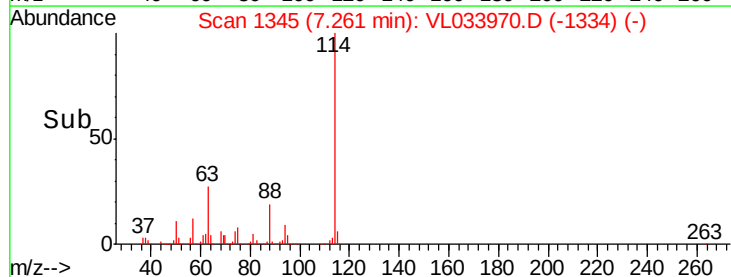
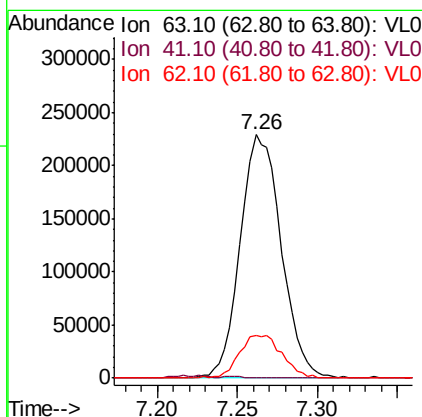
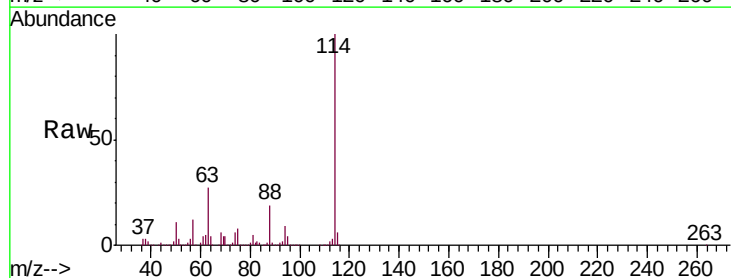
Instrument :
 MSVOA_L
 ClientSampleId :
 INDOOR-AIRRE

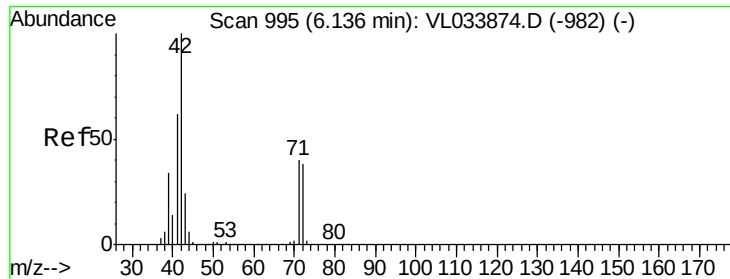
Tgt Ion: 43 Resp: 8797
 Ion Ratio Lower Upper
 43 100
 72 38.6 17.9 26.9#



#39
 1,2-Dichloropropane
 Concen: 9.048 ppbv
 RT: 7.26 min Scan# 1345
 Delta R.T. -0.46 min
 Lab File: VL033970.D
 Acq: 26 Jun 2019 16:42

Tgt Ion: 63 Resp: 399924
 Ion Ratio Lower Upper
 63 100
 41 0.1 58.7 88.1#
 62 17.5 51.9 77.9#





#41

Tetrahydrofuran

Concen: 0.282 ppbv

RT: 6.14 min Scan# 995

Delta R.T. -0.00 min

Lab File: VL033970.D

Acq: 26 Jun 2019 16:42

Instrument :

MSVOA_L

ClientSampleId :

INDOOR-AIRRE

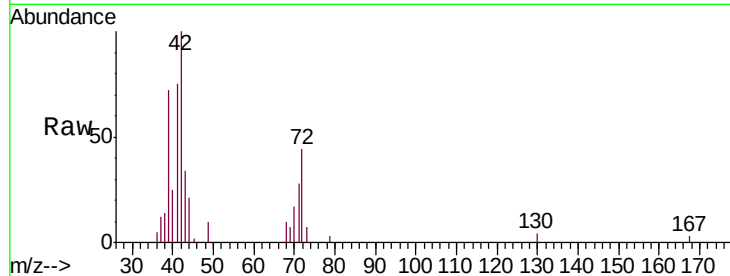
Tgt Ion: 42 Resp: 12120

Ion Ratio Lower Upper

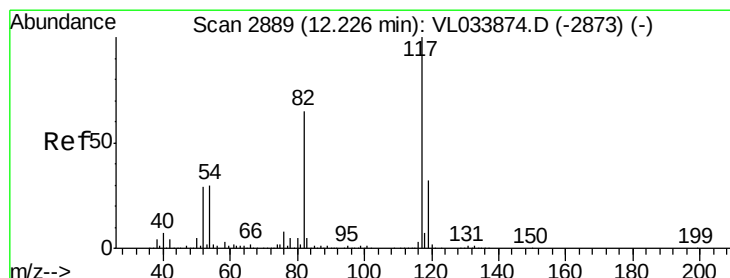
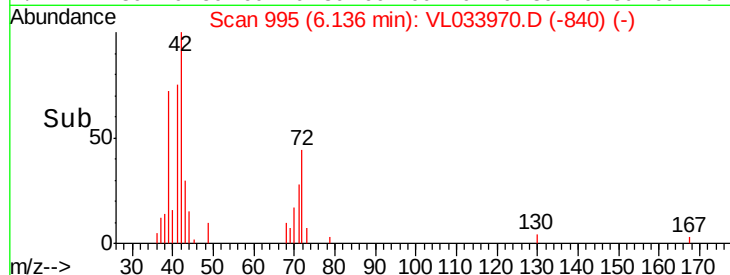
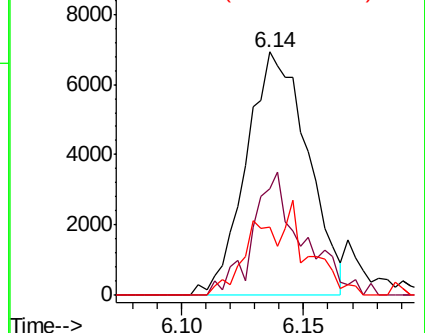
42 100

72 41.3 32.2 48.4

71 32.8 31.7 47.5



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.21 min Scan# 2885

Delta R.T. -0.01 min

Lab File: VL033970.D

Acq: 26 Jun 2019 16:42

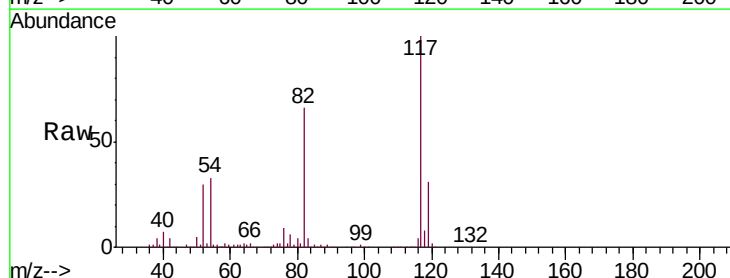
Tgt Ion: 117 Resp: 1285181

Ion Ratio Lower Upper

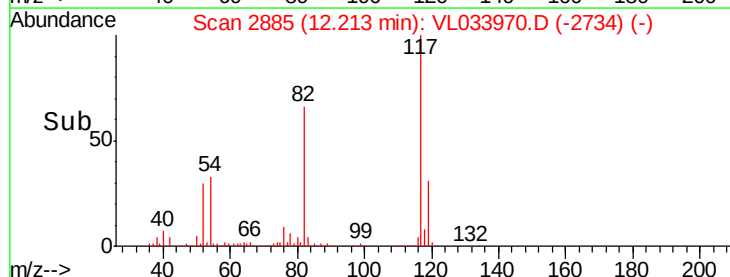
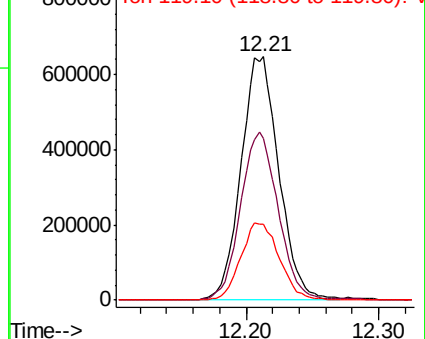
117 100

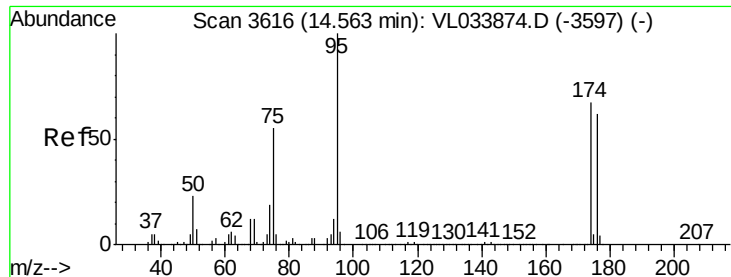
82 69.6 50.2 75.2

119 32.6 24.8 37.2



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: 10.711 ppbv
 RT: 14.55 min Scan# 3611
 Delta R.T. -0.02 min
 Lab File: VL033970.D
 Acq: 26 Jun 2019 16:42

Instrument :
 MSVOA_L
 ClientSampleId :
 INDOOR-AIRRE

Tgt Ion: 95 Resp: 1130739
 Ion Ratio Lower Upper
 95 100
 174 66.2 54.0 81.0
 175 4.8 3.8 5.8

