

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070620\
 Data File : VL035152.D
 Acq On : 6 Jul 2020 19:09
 Operator : SY/AP
 Sample : L3190-03DUP 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EXHAUST-02DLDP

Quant Time: Jul 07 05:05:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Sat Jun 20 02:10:36 2020
 QLast Update : Sat Jun 20 02:10:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1034072	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2443704	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2275293	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1935490	10.24	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.40%

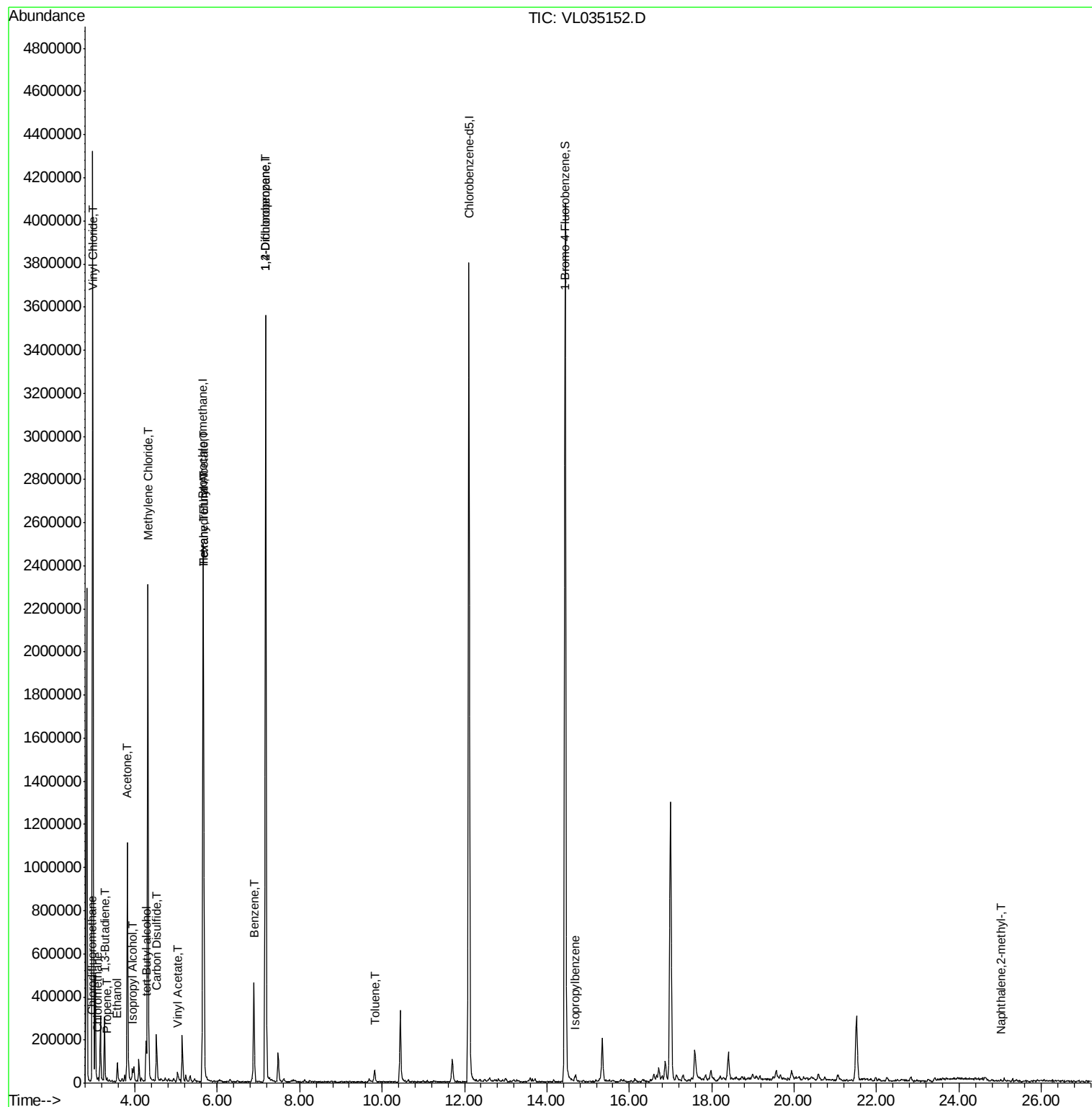
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.94	51	7590	0.066	ppbv	98
4) Chloromethane	3.10	50	5465	0.085	ppbv #	74
5) Vinyl Chloride	2.98	62	306416	5.032	ppbv #	44
9) Propene	3.31	41	3032	0.067	ppbv	89
13) Ethanol	3.57	45	82004	4.799	ppbv	93
15) Acetone	3.82	43	1079900	8.638	ppbv	94
16) 1,3-Butadiene	3.27	39	78698	1.435	ppbv #	13
17) tert-Butyl alcohol	4.27	59	164071	1.481	ppbv	99
19) Isopropyl Alcohol	3.94	45	52278	0.644	ppbv #	93
20) Methylene Chloride	4.31	84	754764	14.917	ppbv	98
23) Vinyl Acetate	5.05	43	13941	0.092	ppbv #	71
25) Ethyl Acetate	5.67	43	225089	0.998	ppbv #	83
26) Hexane	5.67	57	277721	2.730	ppbv #	46
27) Carbon Disulfide	4.52	76	241763	2.297	ppbv	94
36) Benzene	6.88	78	362690	1.917	ppbv	98
39) 1,2-Dichloropropane	7.17	63	658573	8.898	ppbv #	26
41) Tetrahydrofuran	5.67	42	108821	1.518	ppbv #	47
53) Toluene	9.82	91	19575	0.097	ppbv #	40
62) Isopropylbenzene	14.69	105	10492	0.031	ppbv #	57
80) Naphthalene,2-methyl-	25.01	142	3142	0.035	ppbv	94

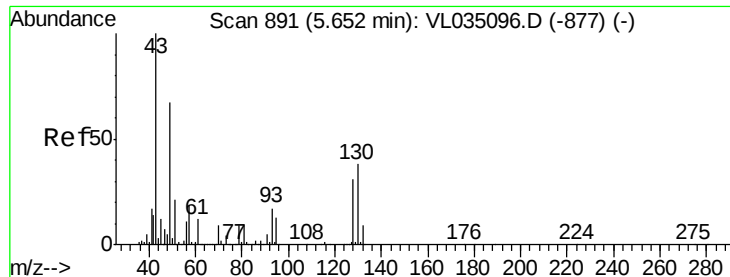
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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EXHAUST-02DLDUP

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QLast Update : Sat Jun 20 02:10:36 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. 0.00 min

Lab File: VL035152.D

Acq: 6 Jul 2020 19:09

Instrument :

MSVOA_L

ClientSampleId :

EXHAUST-02DLDUP

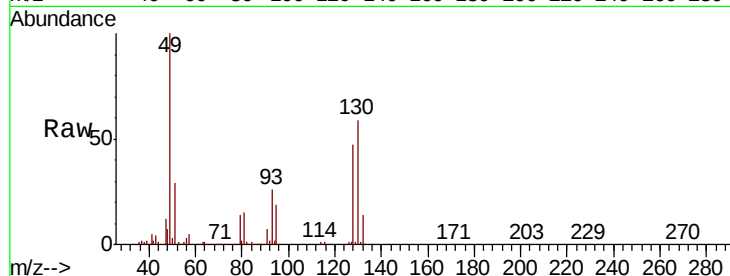
Tot Ion: 49 Resp: 1034072

Ion Ratio Lower Upper

49 100

128 47.5 22.9 68.5

130 61.2 29.0 87.0



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

5.65

800000

600000

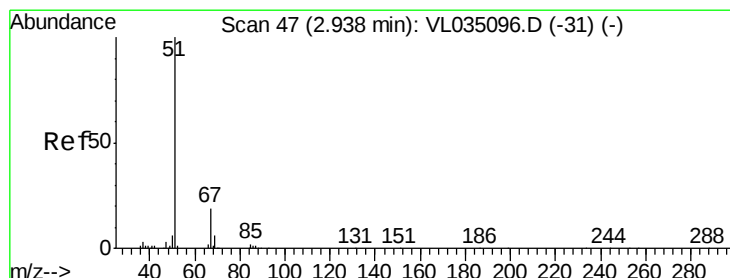
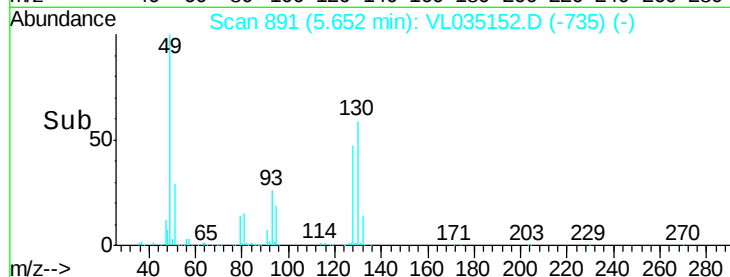
400000

200000

0

5.60 5.65 5.70 5.75

Time-->



#3

Chlorodifluoromethane

Concen: 0.066 ppbv

RT: 2.94 min Scan# 48

Delta R.T. 0.00 min

Lab File: VL035152.D

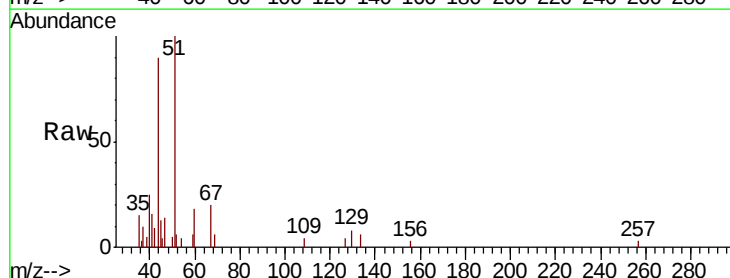
Acq: 6 Jul 2020 19:09

Tgt Ion: 51 Resp: 7590

Ion Ratio Lower Upper

51 100

67 19.8 15.2 22.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

5000

4000

3000

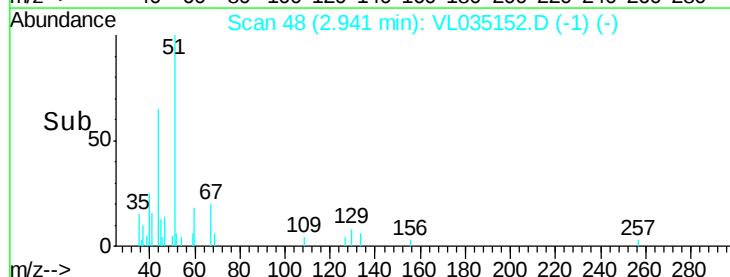
2000

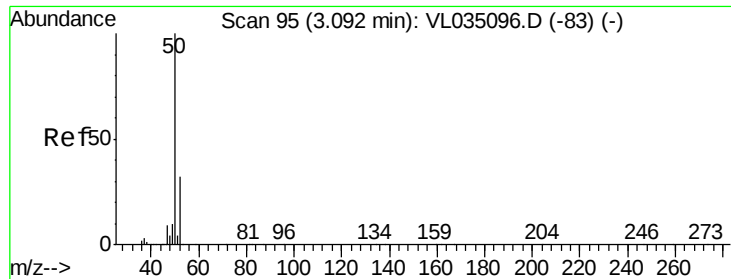
1000

0

2.90 2.95 3.00

Time-->





#4

Chloromethane

Concen: 0.085 ppbv

RT: 3.10 min Scan# 97

Delta R.T. 0.01 min

Lab File: VL035152.D

Acq: 6 Jul 2020 19:09

Instrument :

MSVOA_L

ClientSampleId :

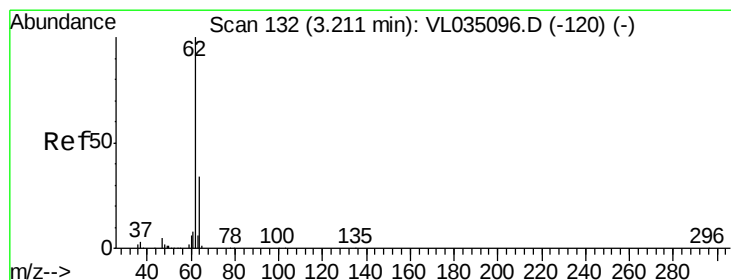
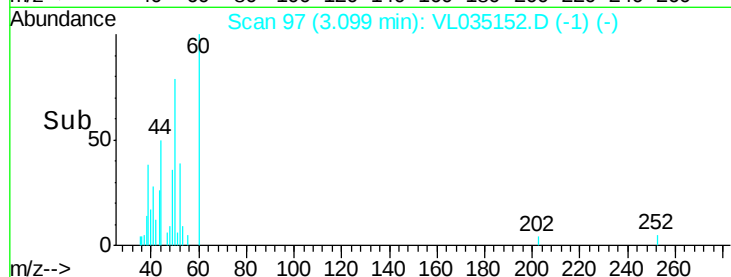
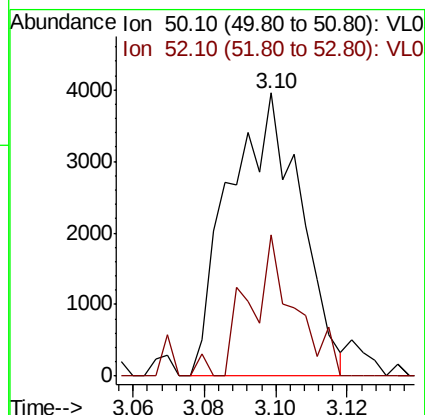
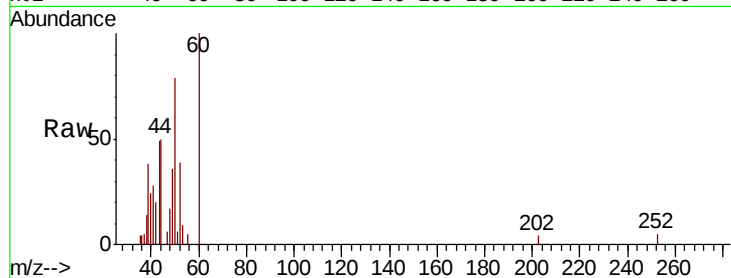
EXHAUST-02DLDUP

Tot Ion: 50 Resp: 5465

Ion Ratio Lower Upper

50 100

52 46.3 25.4 38.0#



#5

Vinyl Chloride

Concen: 5.032 ppbv

RT: 2.98 min Scan# 59

Delta R.T. -0.23 min

Lab File: VL035152.D

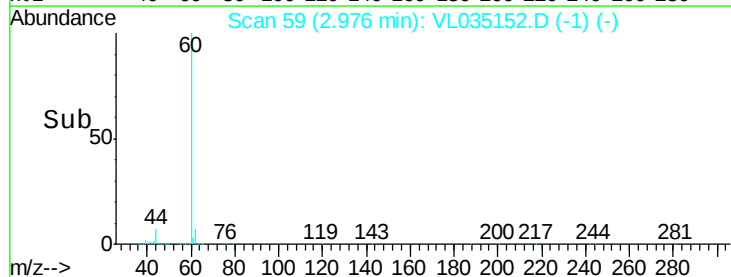
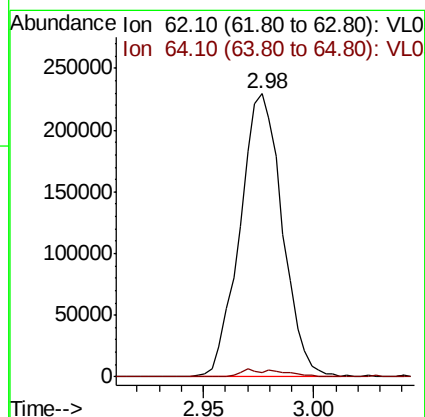
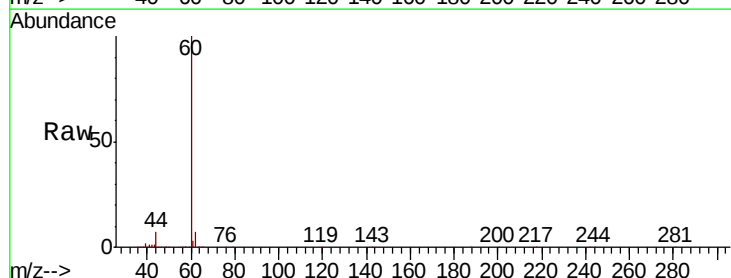
Acq: 6 Jul 2020 19:09

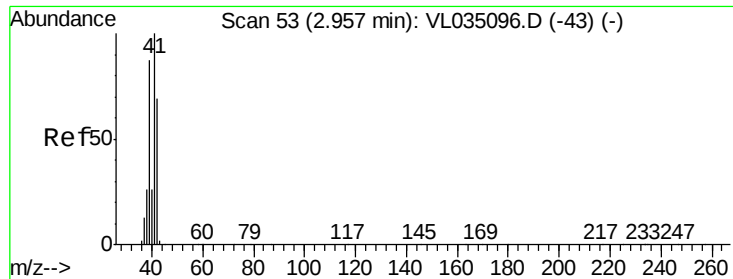
Tgt Ion: 62 Resp: 306416

Ion Ratio Lower Upper

62 100

64 1.6 27.0 40.4#





#9

Propene

Concen: 0.067 ppbv

RT: 3.31 min Scan# 164

Delta R.T. 0.36 min

Lab File: VL035152.D

Acq: 6 Jul 2020 19:09

Instrument :

MSVOA_L

ClientSampleId :

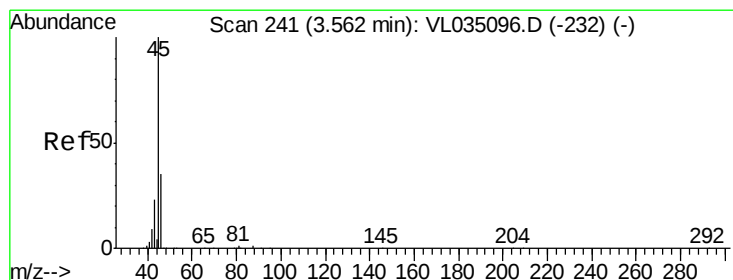
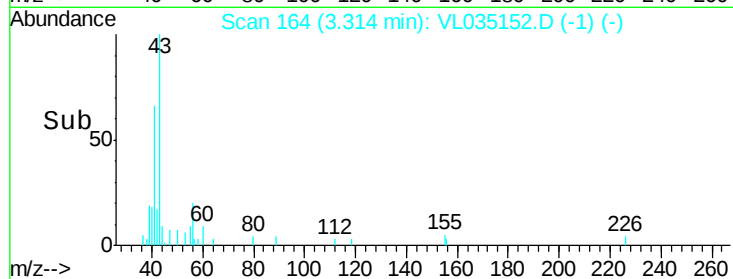
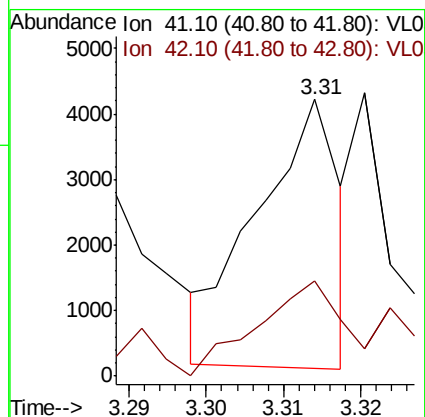
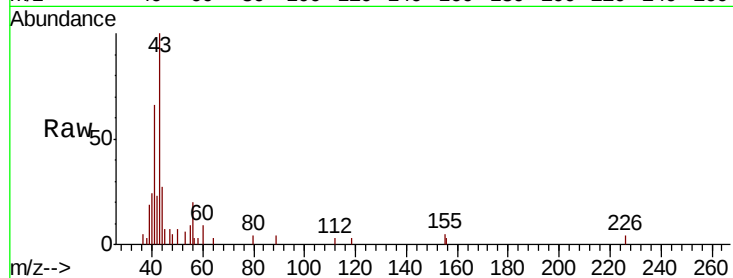
EXHAUST-02DLDUP

Tot Ion: 41 Resp: 3032

Ion Ratio Lower Upper

41 100

42 60.8 55.8 83.6



#13

Ethanol

Concen: 4.799 ppbv

RT: 3.57 min Scan# 243

Delta R.T. 0.01 min

Lab File: VL035152.D

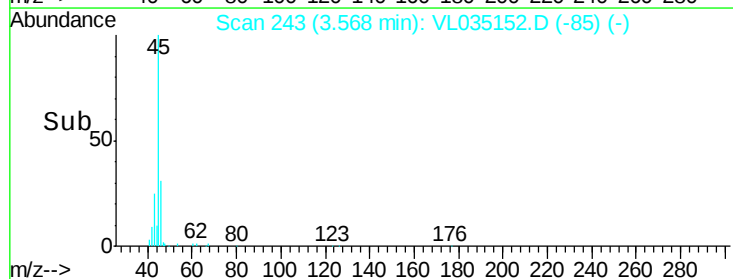
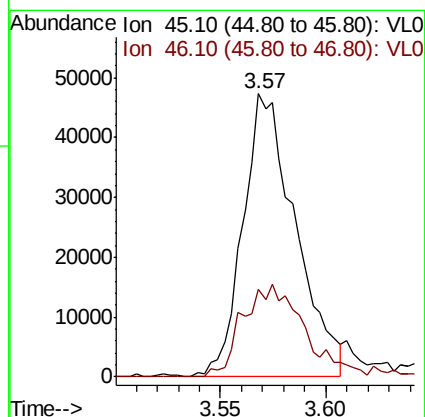
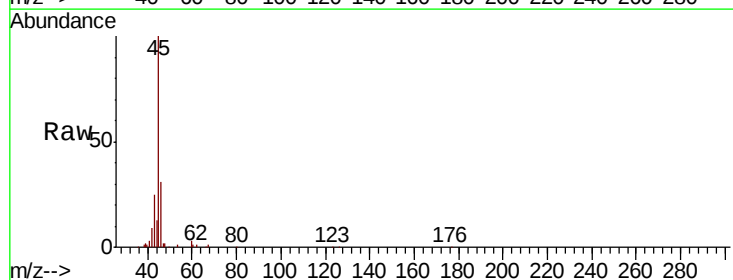
Acq: 6 Jul 2020 19:09

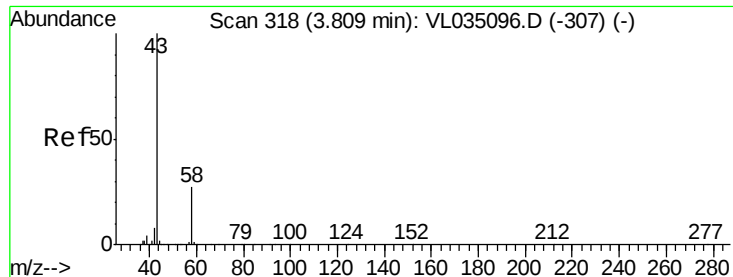
Tgt Ion: 45 Resp: 82004

Ion Ratio Lower Upper

45 100

46 39.8 14.2 57.0





#15

Acetone

Concen: 8.638 ppbv

RT: 3.82 min Scan# 320

Delta R.T. 0.01 min

Lab File: VL035152.D

Acq: 6 Jul 2020 19:09

Instrument :

MSVOA_L

ClientSampleId :

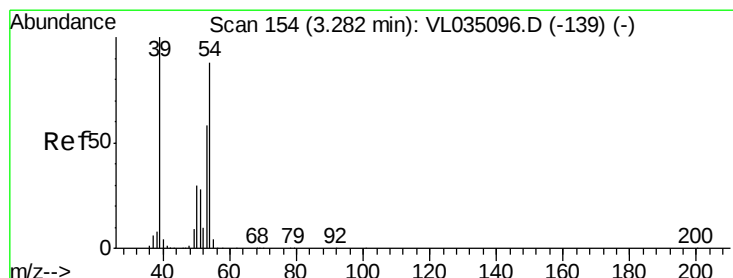
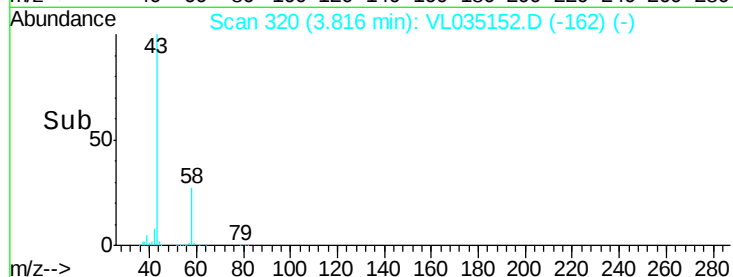
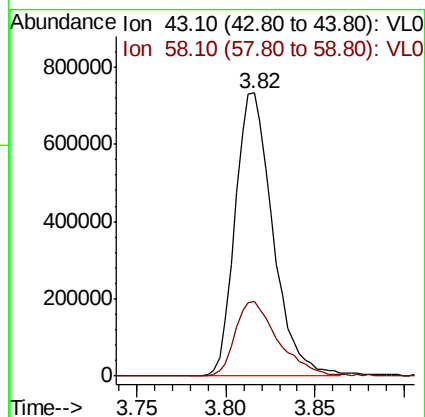
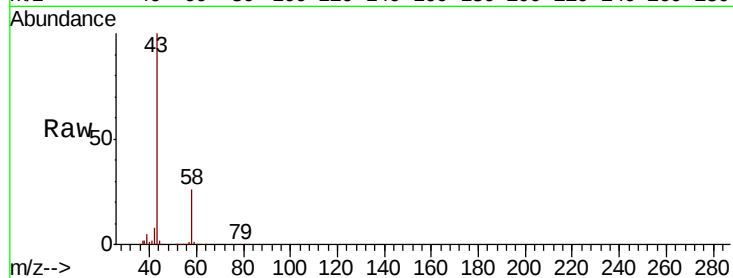
EXHAUST-02DLDUP

Tot Ion: 43 Resp: 1079900

Ion Ratio Lower Upper

43 100

58 30.4 21.8 32.6



#16

1,3-Butadiene

Concen: 1.435 ppbv

RT: 3.27 min Scan# 149

Delta R.T. -0.02 min

Lab File: VL035152.D

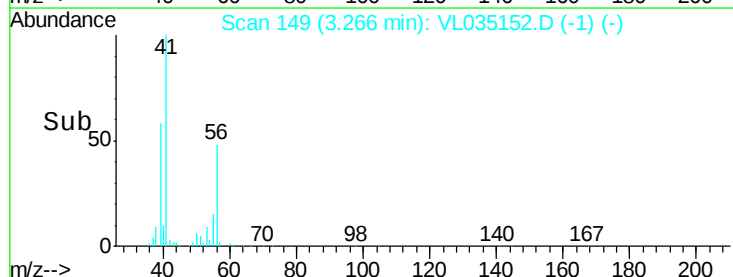
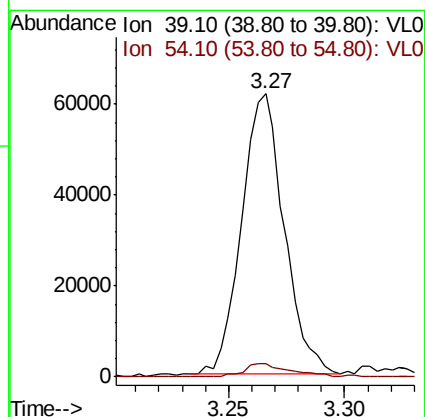
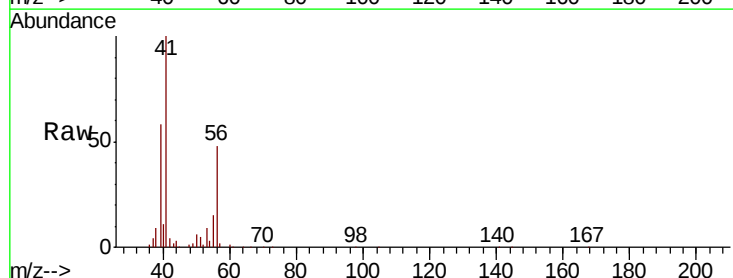
Acq: 6 Jul 2020 19:09

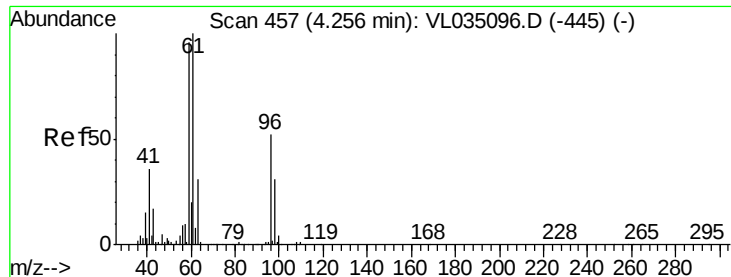
Tgt Ion: 39 Resp: 78698

Ion Ratio Lower Upper

39 100

54 5.3 67.0 100.4#





#17

tert-Butyl alcohol

Concen: 1.481 ppbv

RT: 4.27 min Scan# 461

Delta R.T. 0.01 min

Lab File: VL035152.D

Acq: 6 Jul 2020 19:09

Instrument :

MSVOA_L

ClientSampleId :

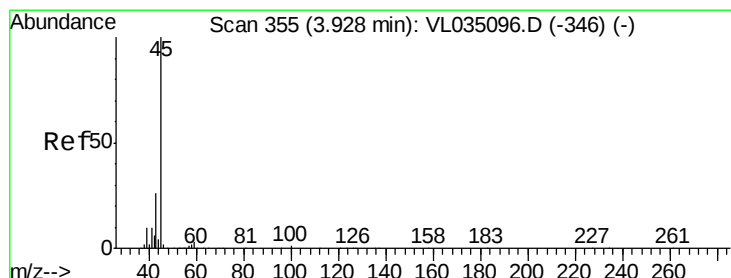
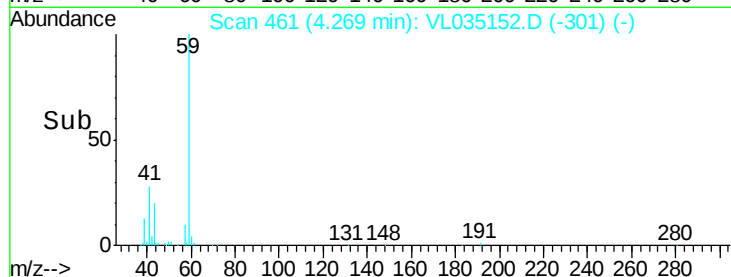
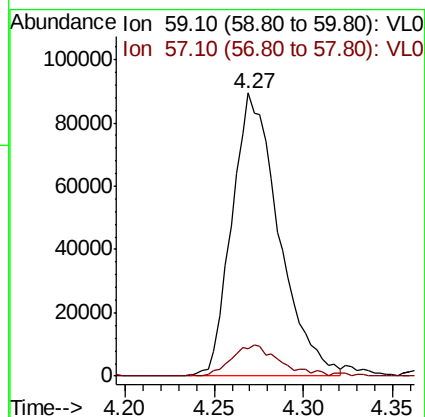
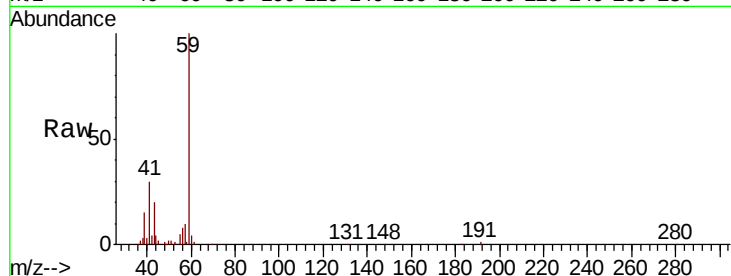
EXHAUST-02DLDP

Tot Ion: 59 Resp: 164071

Ion Ratio Lower Upper

59 100

57 11.2 8.6 12.8



#19

Isopropyl Alcohol

Concen: 0.644 ppbv

RT: 3.94 min Scan# 358

Delta R.T. 0.01 min

Lab File: VL035152.D

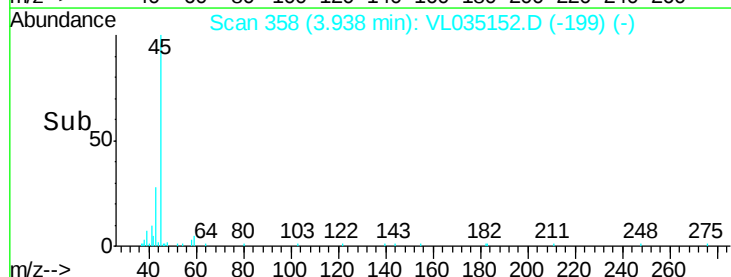
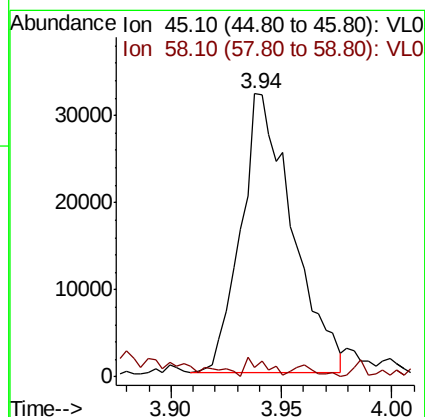
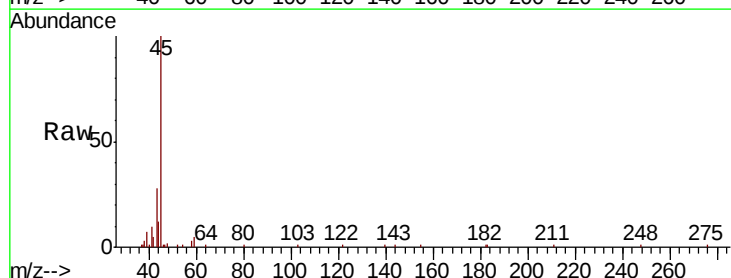
Acq: 6 Jul 2020 19:09

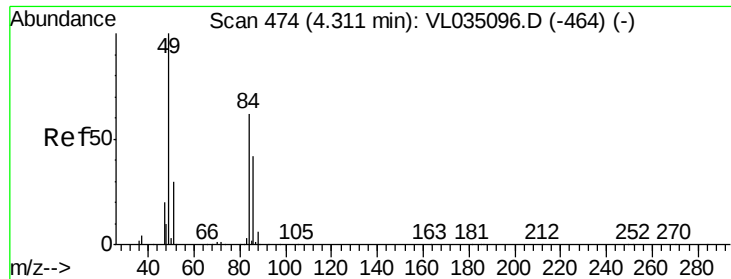
Tgt Ion: 45 Resp: 52278

Ion Ratio Lower Upper

45 100

58 0.0 1.8 2.8#

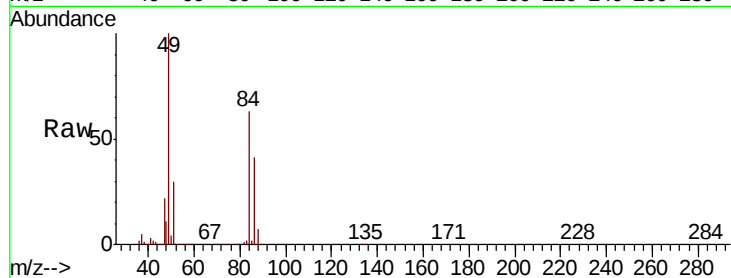




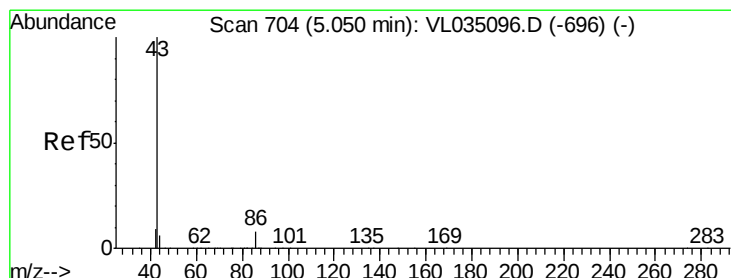
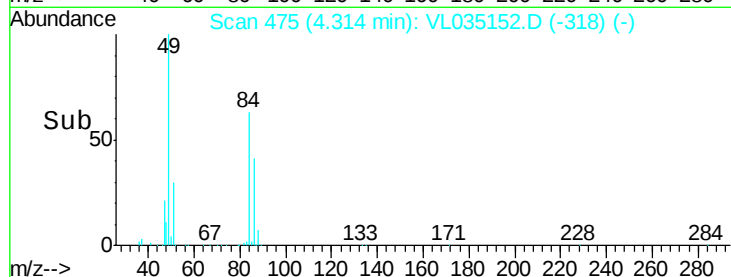
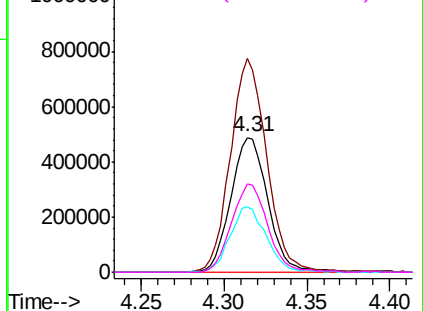
#20
Methvlene Chloride
Concen: 14.917 ppbv
RT: 4.31 min Scan# 475
Delta R.T. 0.00 min
Lab File: VL035152.D
Acq: 6 Jul 2020 19:09

Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02DLDP

Tot Ion: 84 Resp: 754764
Ion Ratio Lower Upper
84 100
49 158.2 128.8 193.2
51 47.8 38.7 58.1
86 65.7 54.1 81.1

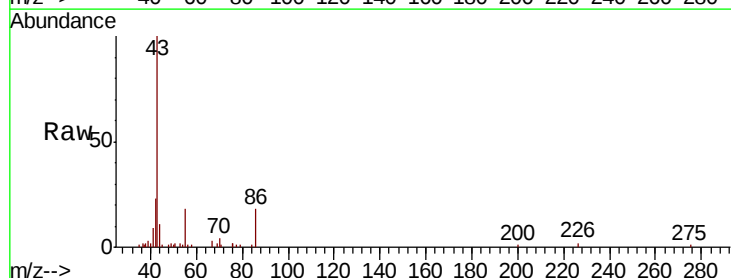


Abundance Ion 84.00 (83.70 to 84.70): VL0
1200000
Ion 49.10 (48.80 to 49.80): VL0
1000000
Ion 51.10 (50.80 to 51.80): VL0
800000
Ion 86.00 (85.70 to 86.70): VL0
600000
400000
200000
0

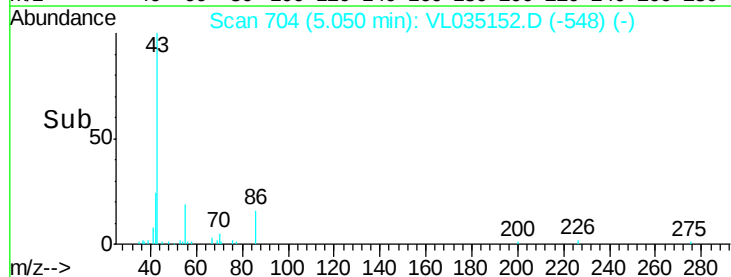
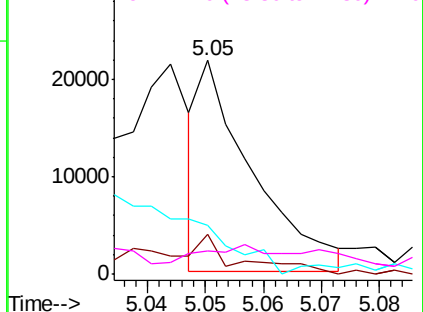


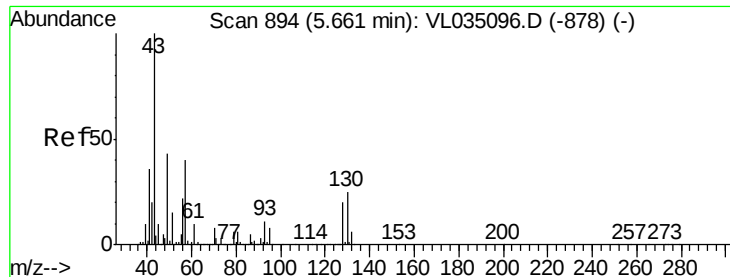
#23
Vinyl Acetate
Concen: 0.092 ppbv
RT: 5.05 min Scan# 704
Delta R.T. 0.00 min
Lab File: VL035152.D
Acq: 6 Jul 2020 19:09

Tgt Ion: 43 Resp: 13941
Ion Ratio Lower Upper
43 100
86 20.8 6.2 9.2#
42 22.2 8.1 12.1#
44 1.6 4.6 7.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0
30000
Ion 86.10 (85.80 to 86.80): VL0
20000
Ion 42.10 (41.80 to 42.80): VL0
10000
Ion 44.10 (43.80 to 44.80): VL0
0





#25

Ethyl Acetate

Concen: 0.998 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.01 min

Lab File: VL035152.D

Acq: 6 Jul 2020 19:09

Instrument :

MSVOA_L

ClientSampleId :

EXHAUST-02DLDUP

Tot Ion: 43 Resp: 225089

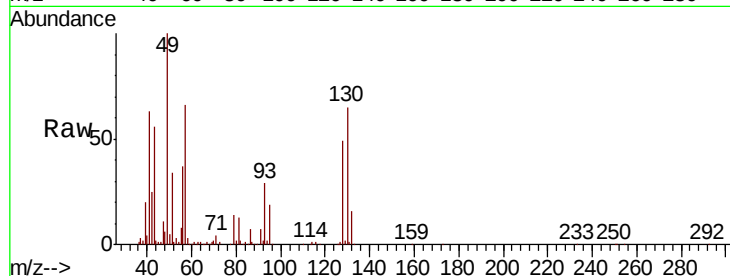
Ion Ratio Lower Upper

43 100

45 3.5 8.4 12.6#

61 2.6 8.0 12.0#

70 3.4 6.3 9.5#

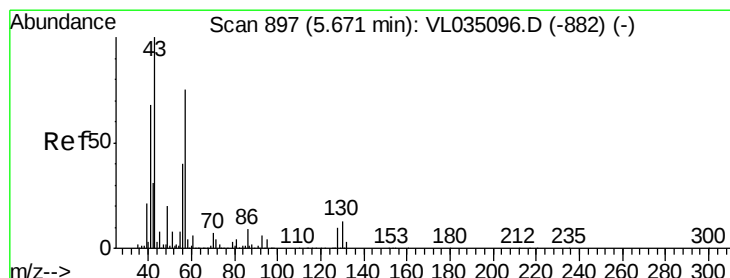
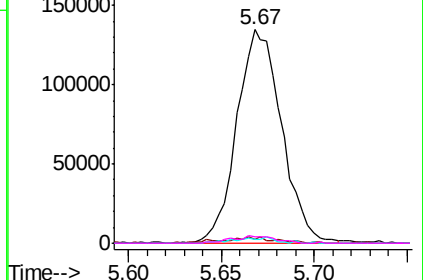
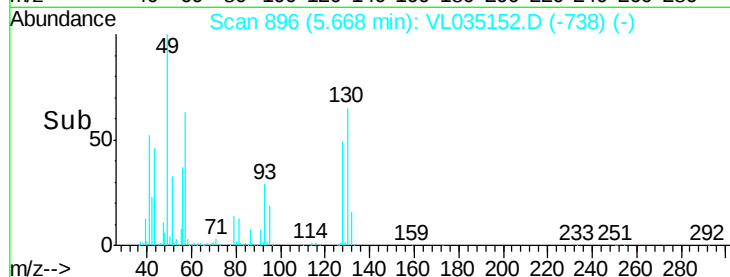


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 2.730 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.00 min

Lab File: VL035152.D

Acq: 6 Jul 2020 19:09

Tgt Ion: 57 Resp: 277721

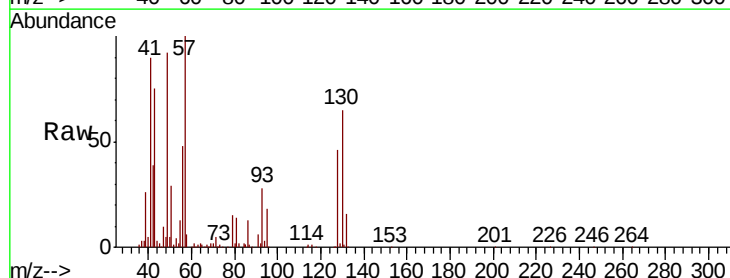
Ion Ratio Lower Upper

57 100

41 94.1 72.9 109.3

43 82.4 181.3 271.9#

56 53.9 43.1 64.7

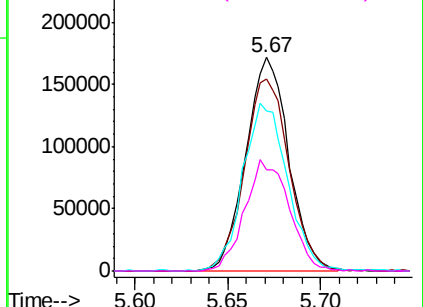
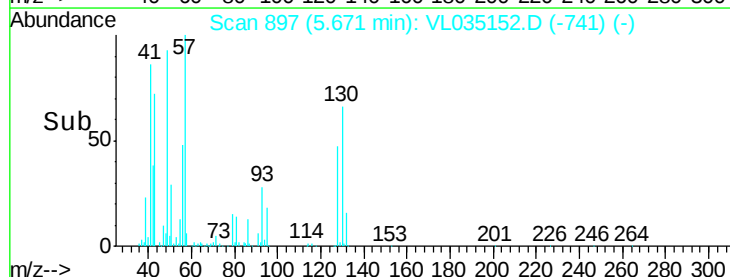


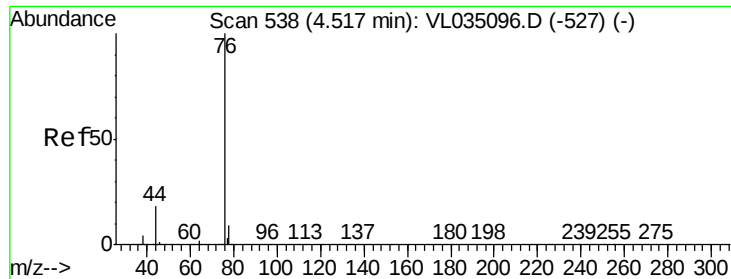
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

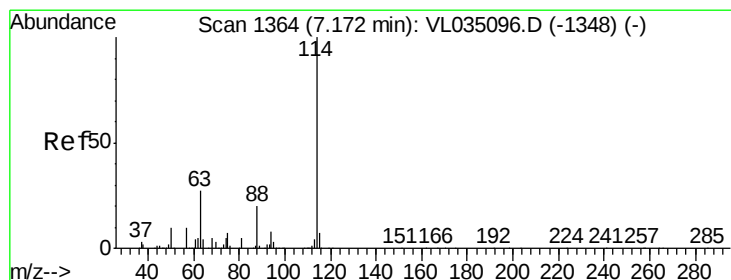
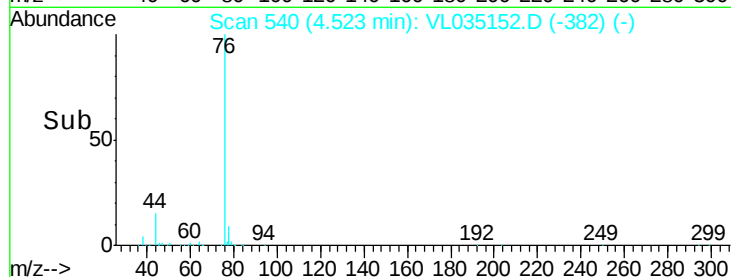
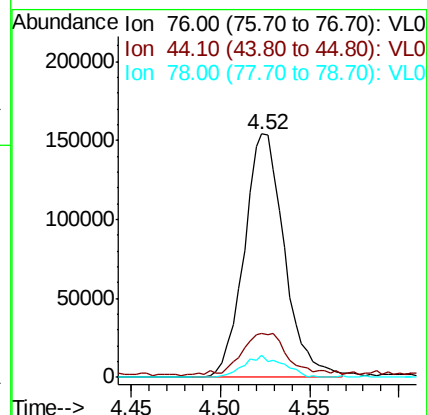
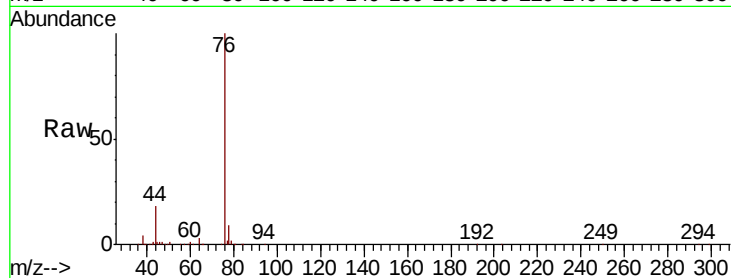




#27
Carbon Disulfide
Concen: 2.297 ppbv
RT: 4.52 min Scan# 540
Delta R.T. 0.01 min
Lab File: VL035152.D
Acq: 6 Jul 2020 19:09

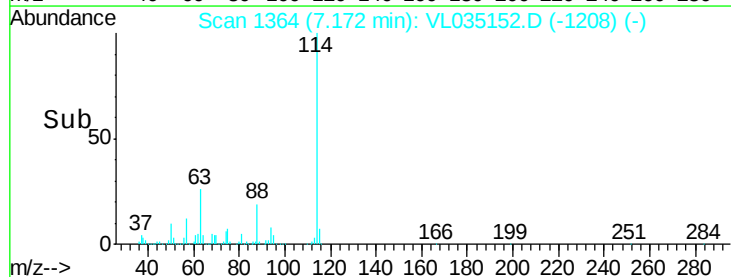
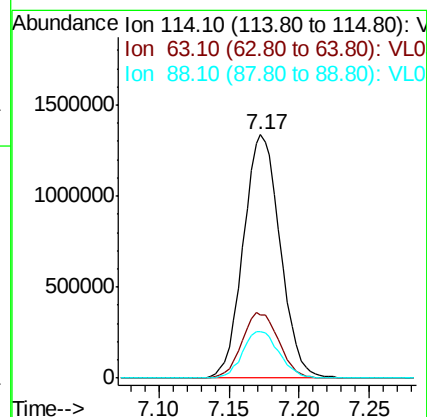
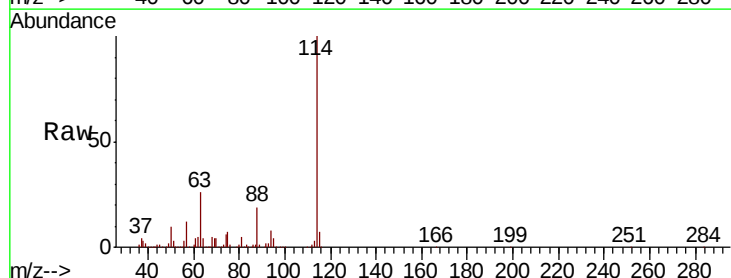
Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02DLDUP

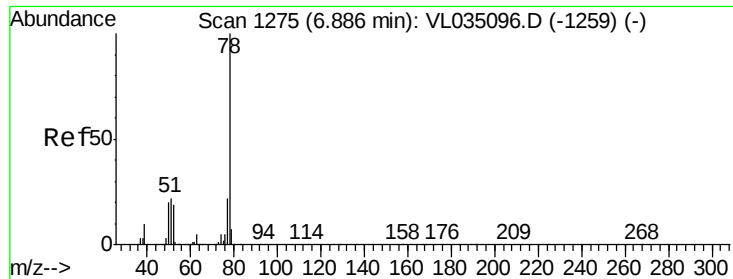
Tot Ion: 76 Resp: 241763
Ion Ratio Lower Upper
76 100
44 23.7 15.8 23.8
78 9.0 7.6 11.4



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. 0.00 min
Lab File: VL035152.D
Acq: 6 Jul 2020 19:09

Tgt Ion: 114 Resp: 2443704
Ion Ratio Lower Upper
114 100
63 27.0 21.9 32.9
88 19.2 15.6 23.4





#36

Benzene

Concen: 1.917 ppbv

RT: 6.88 min Scan# 1274

Delta R.T. -0.00 min

Lab File: VL035152.D

Acq: 6 Jul 2020 19:09

Instrument :

MSVOA_L

ClientSampleId :

EXHAUST-02DLDP

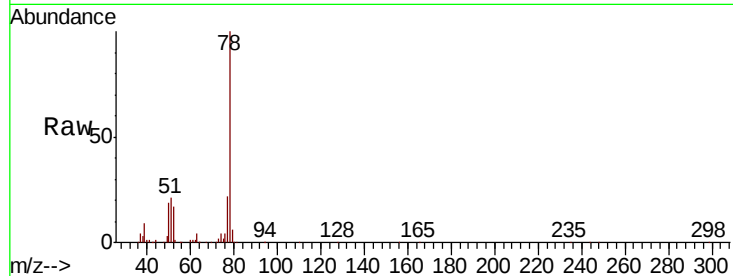
Tot Ion: 78 Resp: 362690

Ion Ratio Lower Upper

78 100

77 22.4 17.8 26.6

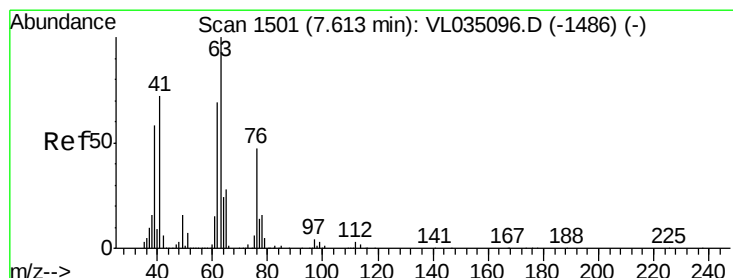
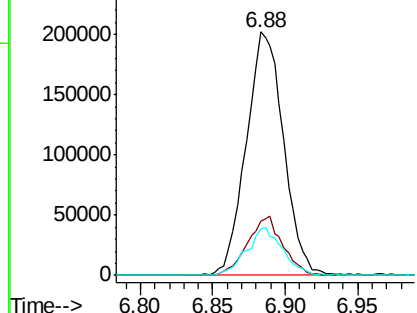
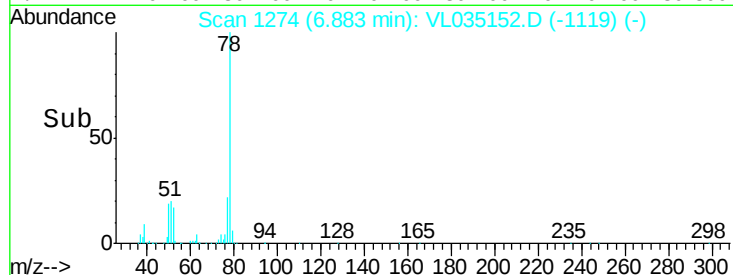
50 18.8 16.2 24.2



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: 8.898 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.44 min

Lab File: VL035152.D

Acq: 6 Jul 2020 19:09

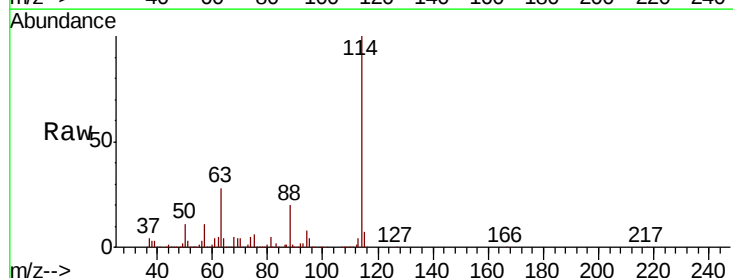
Tgt Ion: 63 Resp: 658573

Ion Ratio Lower Upper

63 100

41 0.0 58.0 87.0#

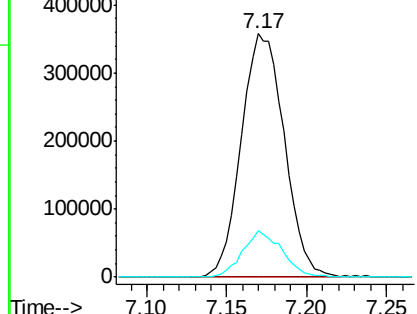
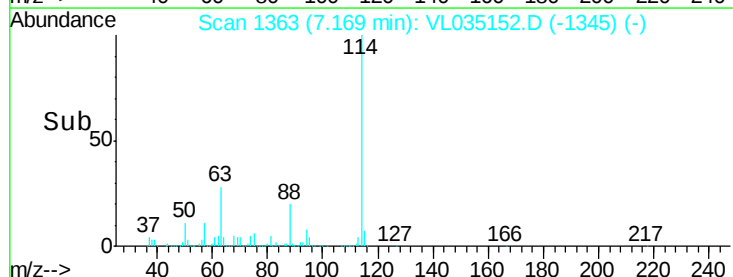
62 18.9 55.4 83.0#

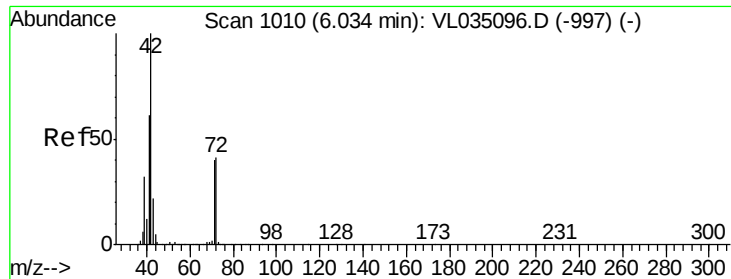


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

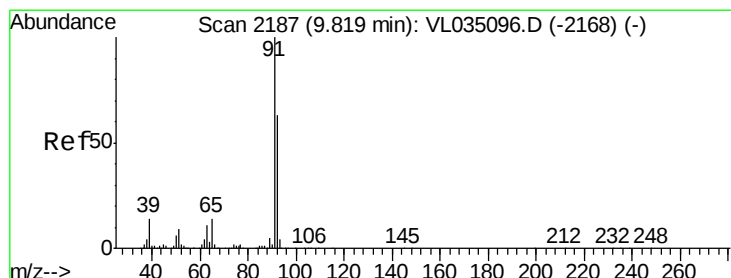
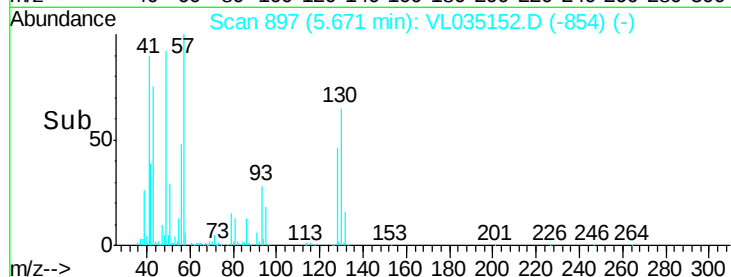
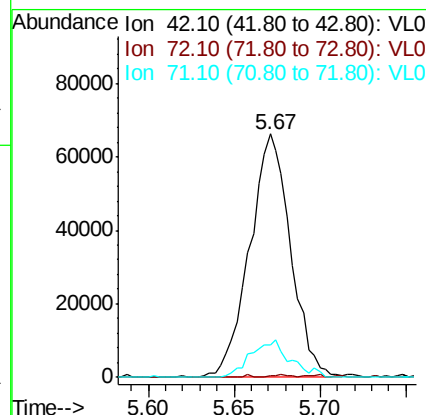
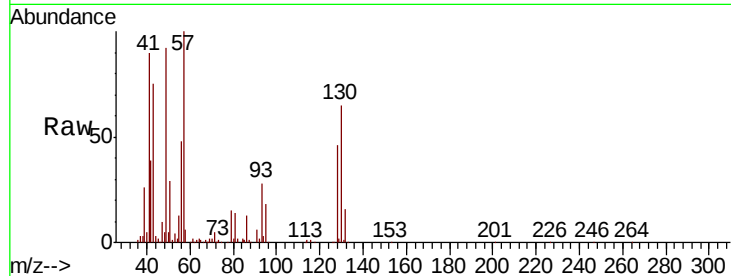




#41
Tetrahydrofuran
Concen: 1.518 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.36 min
Lab File: VL035152.D
Acq: 6 Jul 2020 19:09

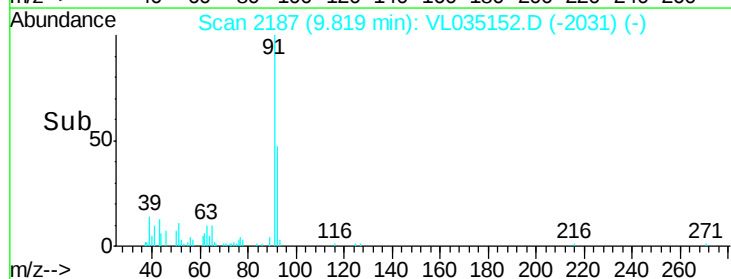
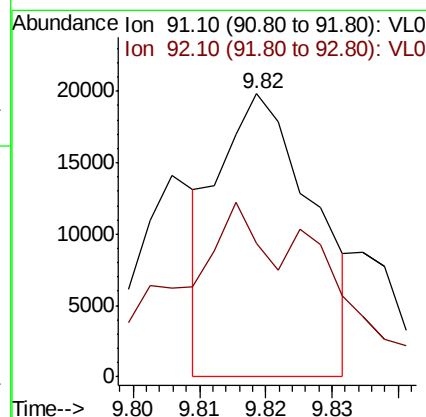
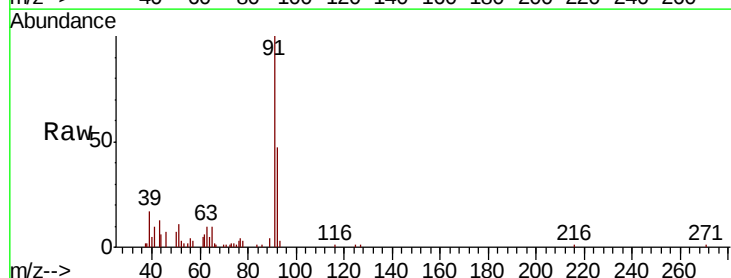
Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02DLDUP

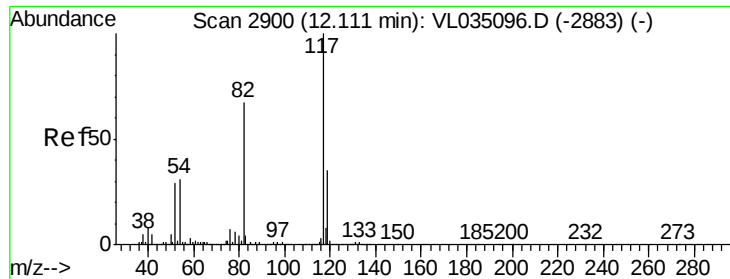
Tot Ion: 42 Resp: 108821
Ion Ratio Lower Upper
42 100
72 1.1 33.4 50.2#
71 14.9 31.8 47.6#



#53
Toluene
Concen: 0.097 ppbv
RT: 9.82 min Scan# 2187
Delta R.T. 0.00 min
Lab File: VL035152.D
Acq: 6 Jul 2020 19:09

Tgt Ion: 91 Resp: 19575
Ion Ratio Lower Upper
91 100
92 107.4 49.0 73.6#

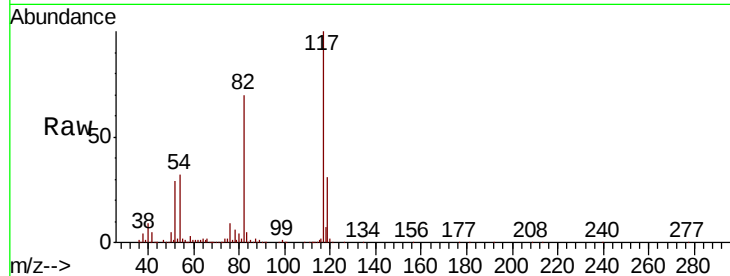




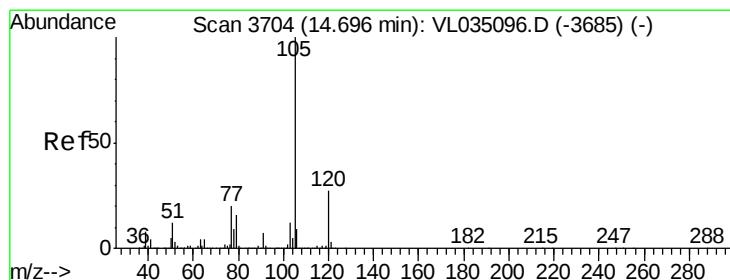
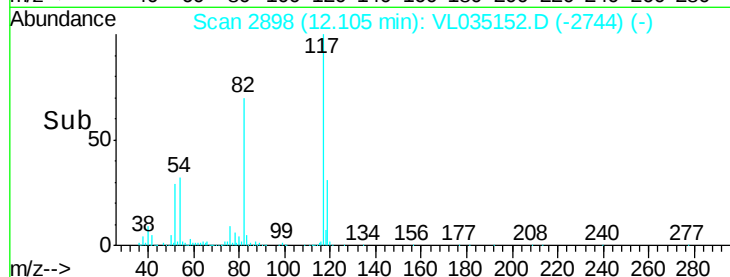
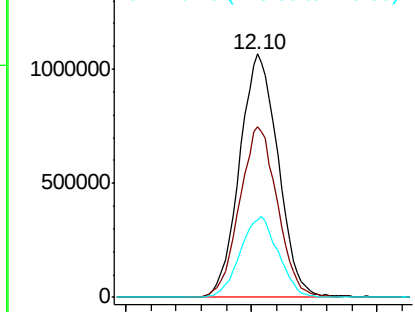
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2898
Delta R.T. -0.01 min
Lab File: VL035152.D
Acq: 6 Jul 2020 19:09

Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02DLDUP

Tot Ion:117 Resp: 2275293
Ion Ratio Lower Upper
117 100
82 69.6 50.4 75.6
119 32.8 25.4 38.0

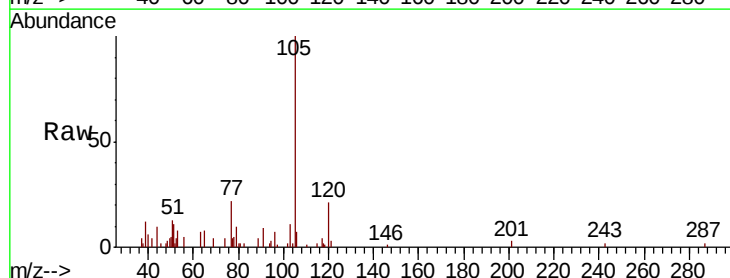


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

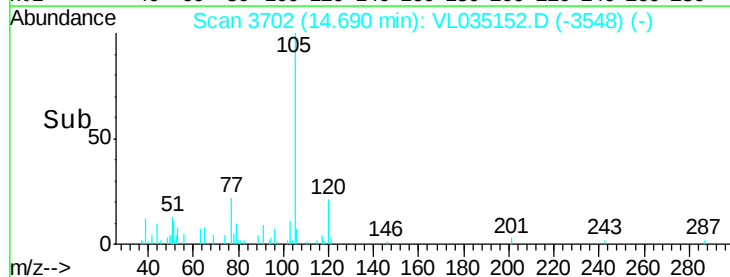
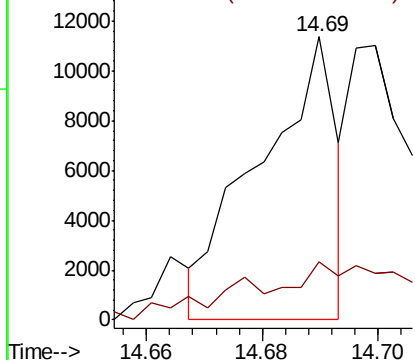


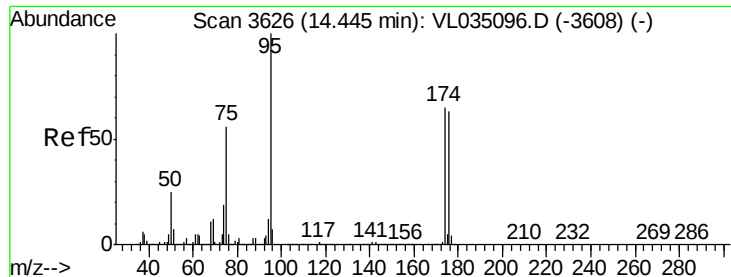
#62
Isopropylbenzene
Concen: 0.031 ppbv
RT: 14.69 min Scan# 3702
Delta R.T. -0.01 min
Lab File: VL035152.D
Acq: 6 Jul 2020 19:09

Tgt Ion:105 Resp: 10492
Ion Ratio Lower Upper
105 100
120 47.8 20.8 31.2#



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V

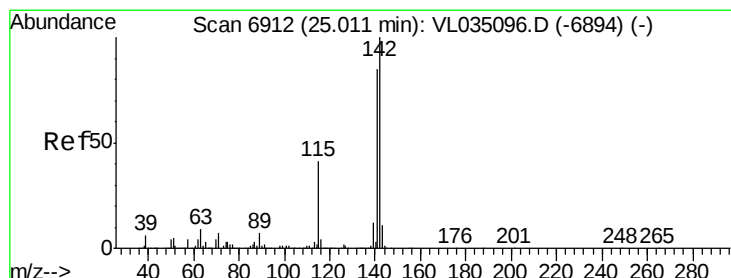
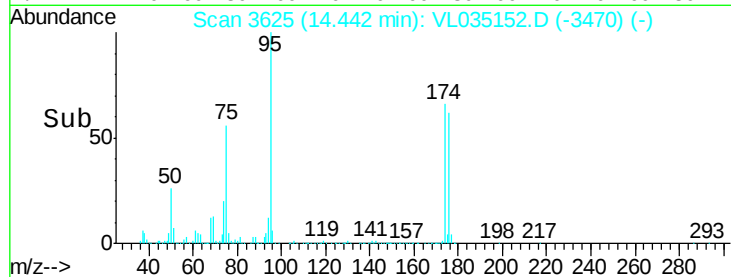
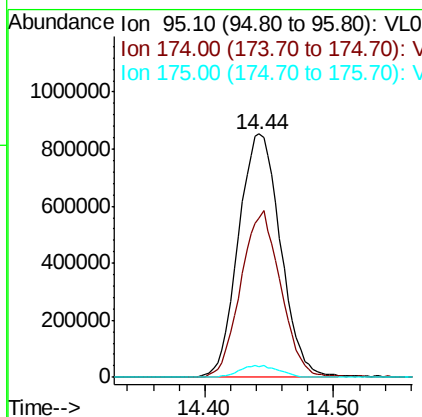
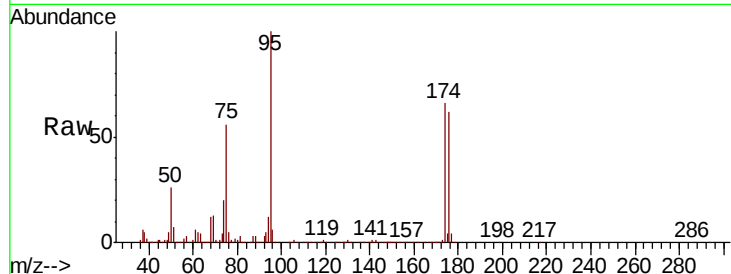




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.240 ppbv
 RT: 14.44 min Scan# 3625
 Delta R.T. -0.00 min
 Lab File: VL035152.D
 Acq: 6 Jul 2020 19:09

Instrument :
 MSVOA_L
 ClientSampleId :
 EXHAUST-02DLDUP

Tot Ion: 95 Resp: 1935490
 Ion Ratio Lower Upper
 95 100
 174 65.3 52.2 78.2
 175 4.7 4.0 6.0



#80
 Naphthalene, 2-methyl-
 Concen: 0.035 ppbv
 RT: 25.01 min Scan# 6913
 Delta R.T. 0.00 min
 Lab File: VL035152.D
 Acq: 6 Jul 2020 19:09

Tgt Ion: 142 Resp: 3142
 Ion Ratio Lower Upper
 142 100
 141 88.1 67.5 101.3
 115 35.8 33.8 50.8

