

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070620\
 Data File : VL035153.D
 Acq On : 6 Jul 2020 19:47
 Operator : SY/AP
 Sample : L3190-03 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EXHAUST-02

Quant Time: Jul 07 05:05:25 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	1013123	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2385918	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2227338	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1882122	10.17	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%

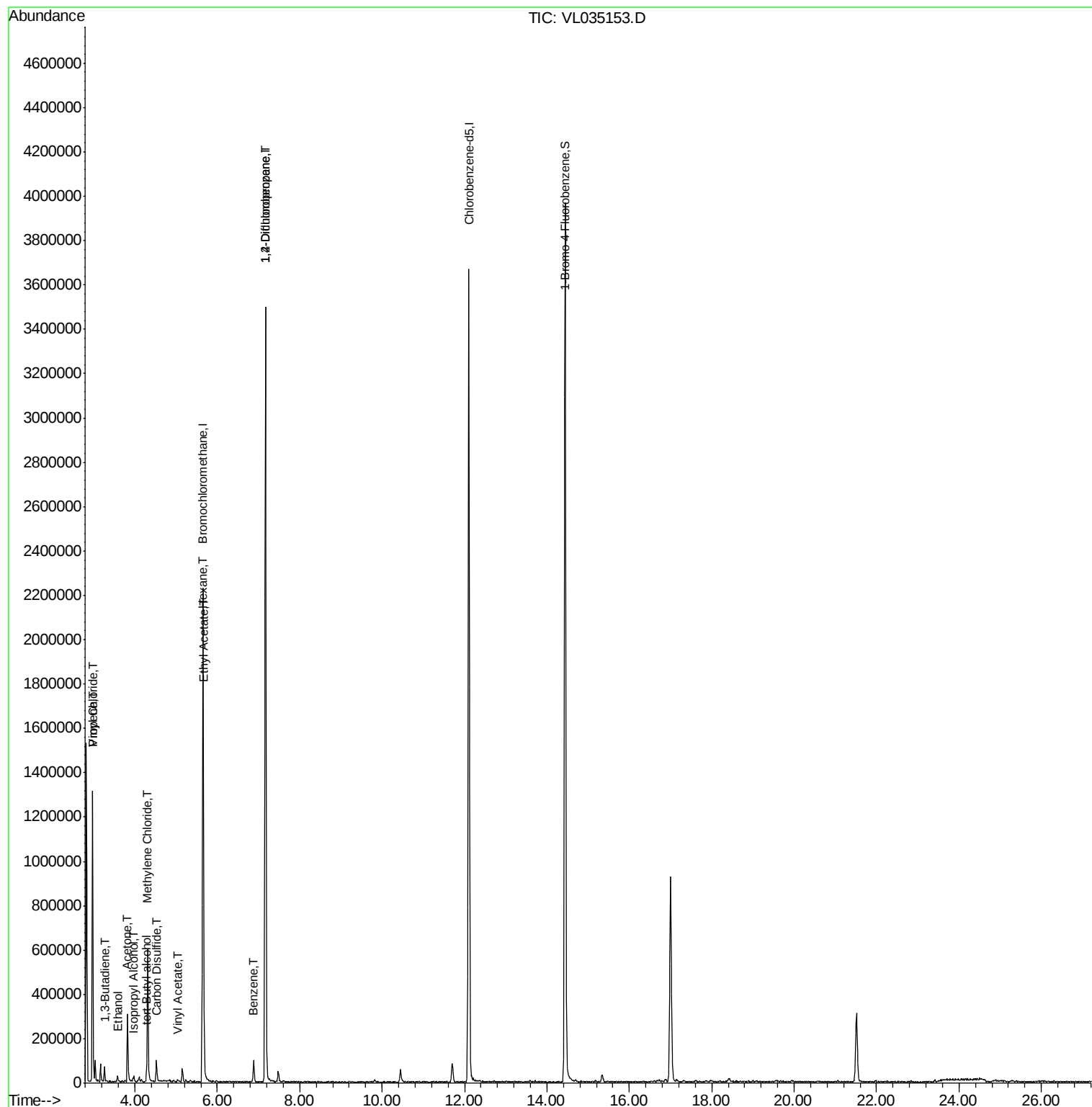
Target Compounds					Ovalue
5) Vinyl Chloride	2.97	62	73394	1.230 ppbv #	46
9) Propene	2.97	41	23821	0.538 ppbv	91
13) Ethanol	3.57	45	22160	1.324 ppbv	99
15) Acetone	3.82	43	293458	2.396 ppbv	92
16) 1,3-Butadiene	3.26	39	18517	0.345 ppbv #	17
17) tert-Butyl alcohol	4.28	59	16013	0.148 ppbv #	43
19) Isopropyl Alcohol	3.95	45	8299	0.104 ppbv #	93
20) Methylene Chloride	4.31	84	193519	3.904 ppbv	95
23) Vinyl Acetate	5.04	43	5315	0.036 ppbv #	25
25) Ethyl Acetate	5.67	43	50355	0.228 ppbv #	90
26) Hexane	5.66	57	62122	0.623 ppbv #	44
27) Carbon Disulfide	4.52	76	99122	0.961 ppbv	95
36) Benzene	6.88	78	67540	0.366 ppbv #	88
39) 1,2-Dichloropropane	7.17	63	645629	8.935 ppbv #	23

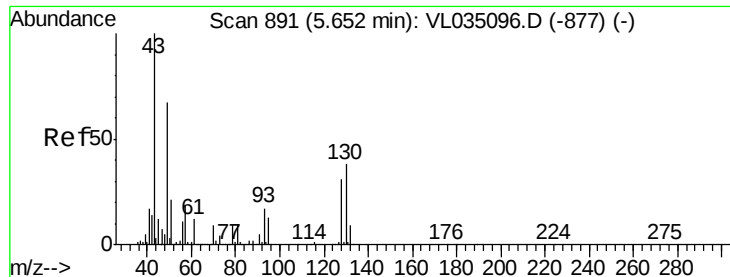
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 07 05:05:25 2020
Quant Method : Z:\V0ASRV\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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.00 min

Lab File: VL035153.D

Acq: 6 Jul 2020 19:47

Instrument :

MSVOA_L

ClientSampleId :

EXHAUST-02

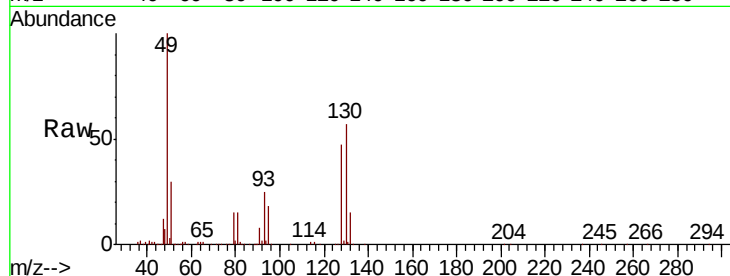
Tot Ion: 49 Resp: 1013123

Ion Ratio Lower Upper

49 100

128 47.2 22.9 68.5

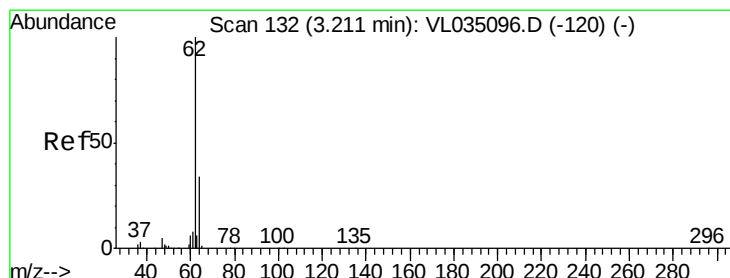
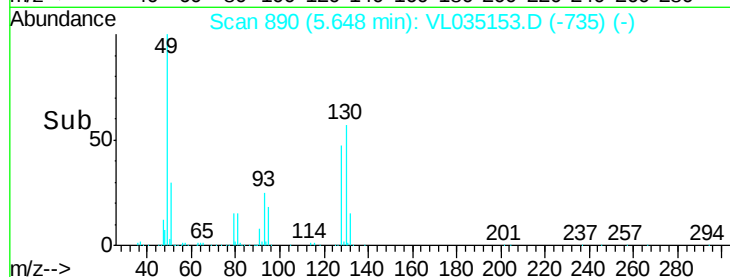
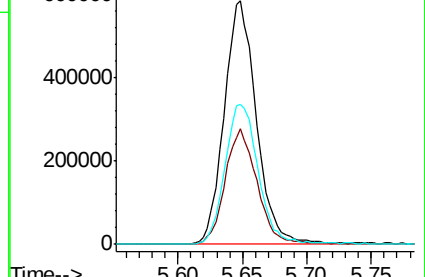
130 60.0 29.0 87.0



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

Vinyl Chloride

Concen: 1.230 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.24 min

Lab File: VL035153.D

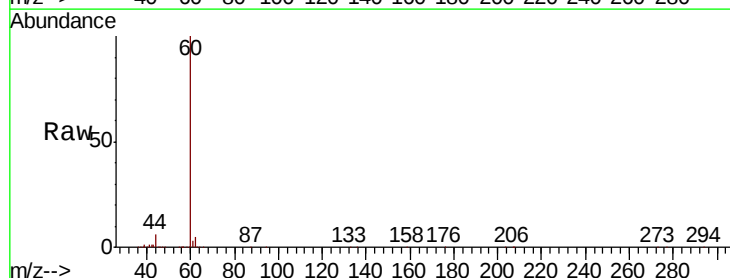
Acq: 6 Jul 2020 19:47

Tgt Ion: 62 Resp: 73394

Ion Ratio Lower Upper

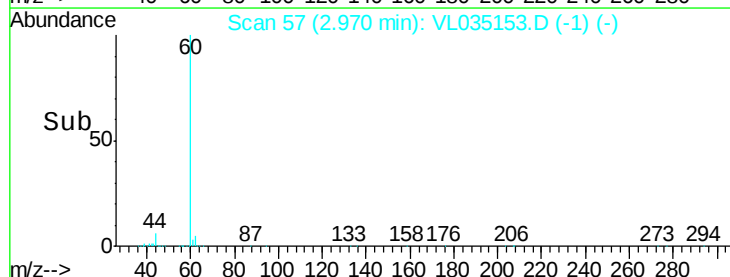
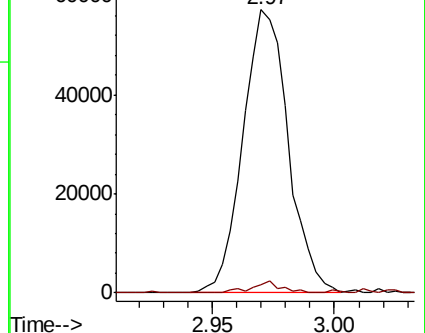
62 100

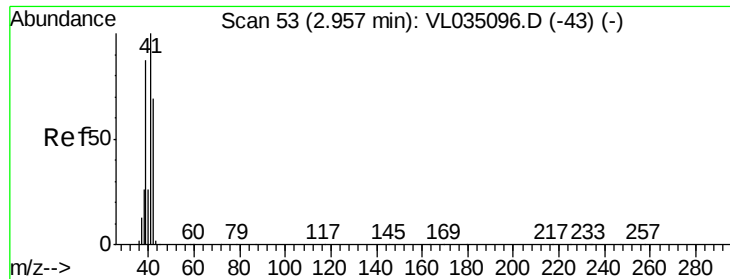
64 3.0 27.0 40.4#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





#9

Propene

Concen: 0.538 ppbv

RT: 2.97 min Scan# 56

Delta R.T. 0.01 min

Lab File: VL035153.D

Acq: 6 Jul 2020 19:47

Instrument :

MSVOA_L

ClientSampleId :

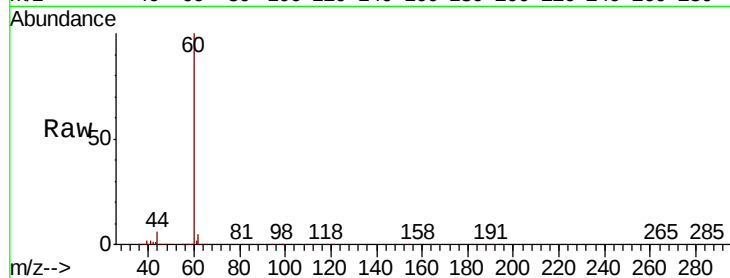
EXHAUST-02

Tot Ion: 41 Resp: 23821

Ion Ratio Lower Upper

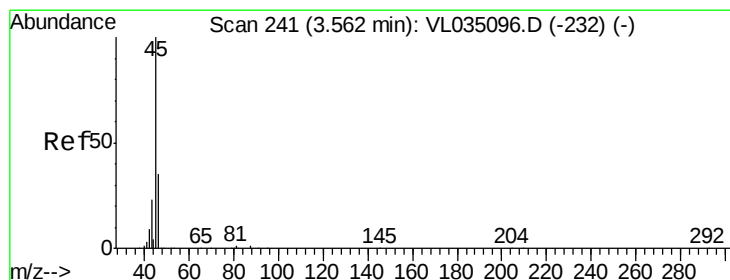
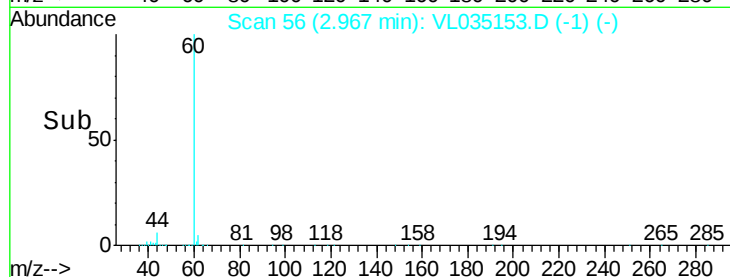
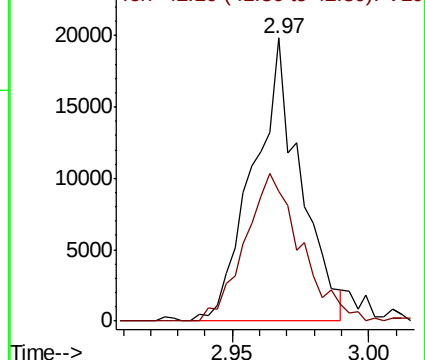
41 100

42 62.7 55.8 83.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#13

Ethanol

Concen: 1.324 ppbv

RT: 3.57 min Scan# 245

Delta R.T. 0.01 min

Lab File: VL035153.D

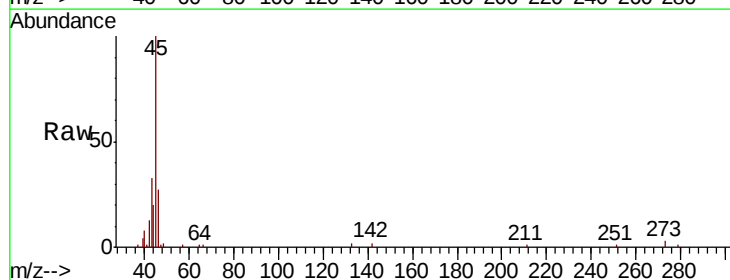
Acq: 6 Jul 2020 19:47

Tgt Ion: 45 Resp: 22160

Ion Ratio Lower Upper

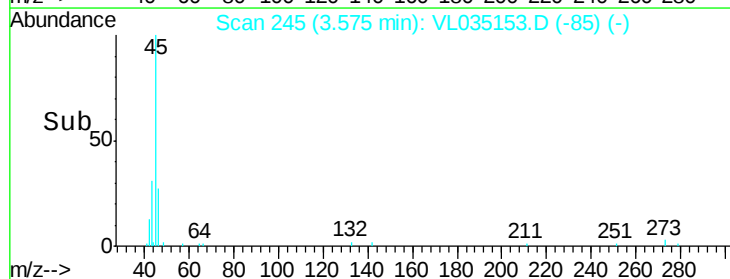
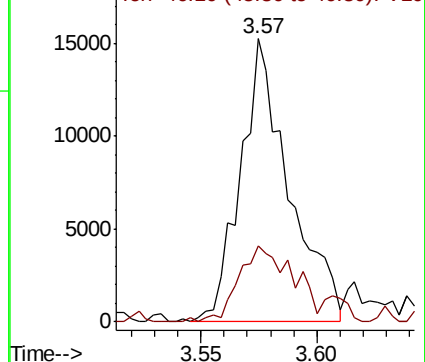
45 100

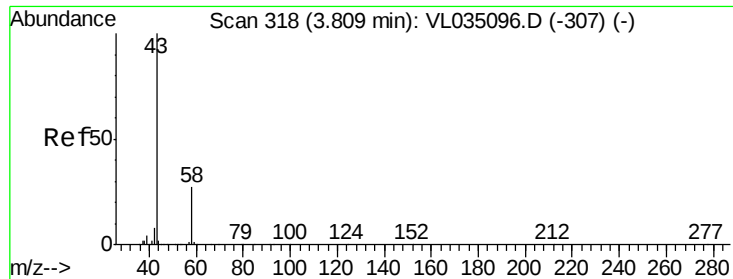
46 36.3 14.2 57.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

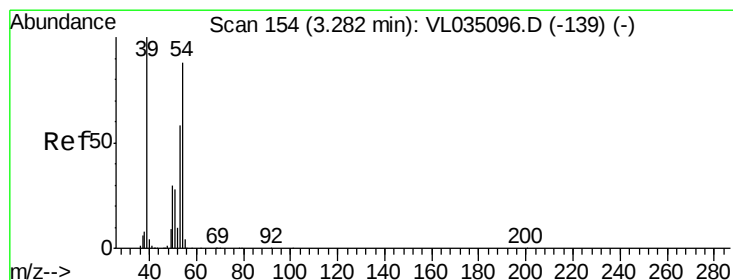
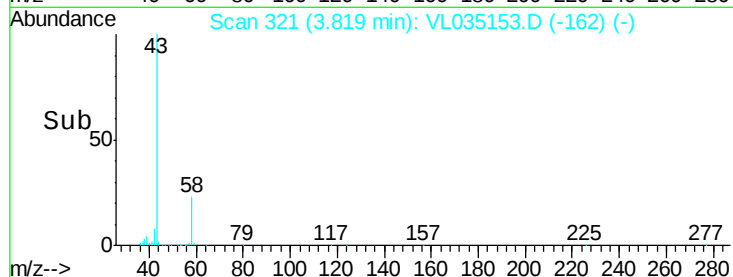
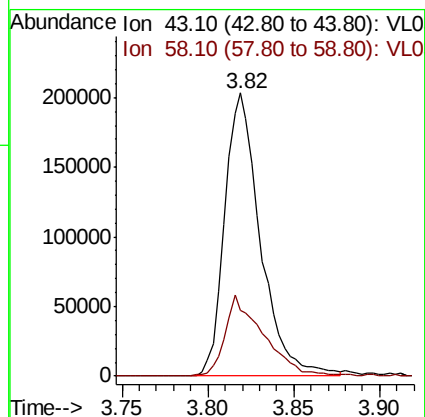
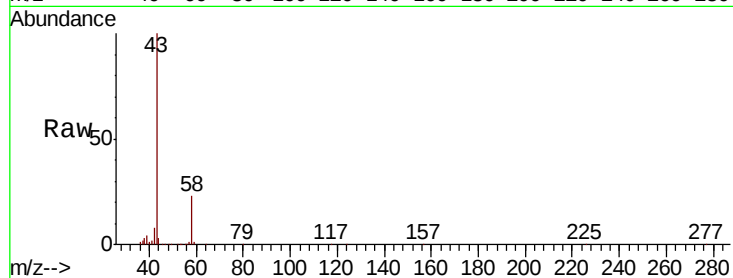




#15
Acetone
Concen: 2.396 ppbv
RT: 3.82 min Scan# 321
Delta R.T. 0.01 min
Lab File: VL035153.D
Acq: 6 Jul 2020 19:47

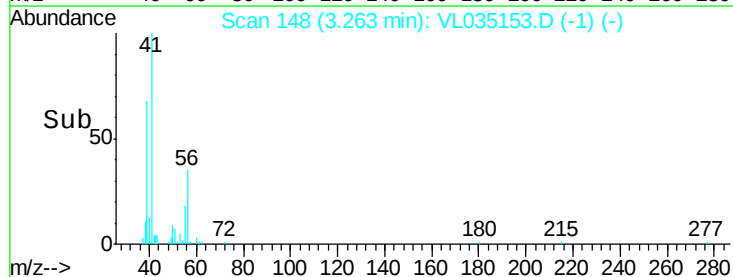
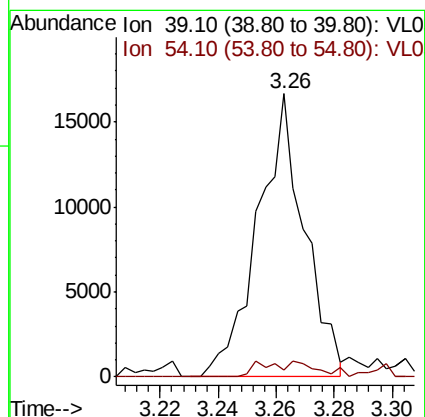
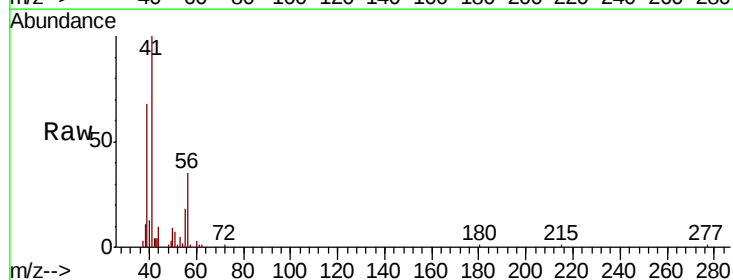
Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

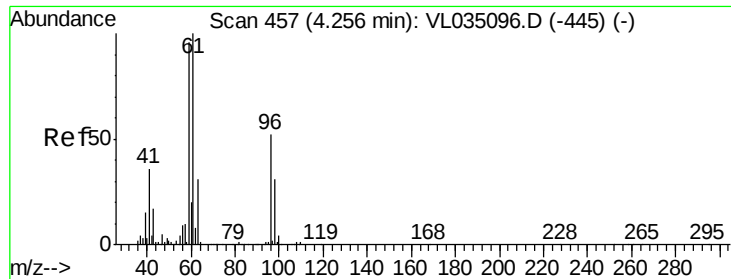
Tot Ion: 43 Resp: 293458
Ion Ratio Lower Upper
43 100
58 31.2 21.8 32.6



#16
1,3-Butadiene
Concen: 0.345 ppbv
RT: 3.26 min Scan# 148
Delta R.T. -0.02 min
Lab File: VL035153.D
Acq: 6 Jul 2020 19:47

Tgt Ion: 39 Resp: 18517
Ion Ratio Lower Upper
39 100
54 8.2 67.0 100.4#



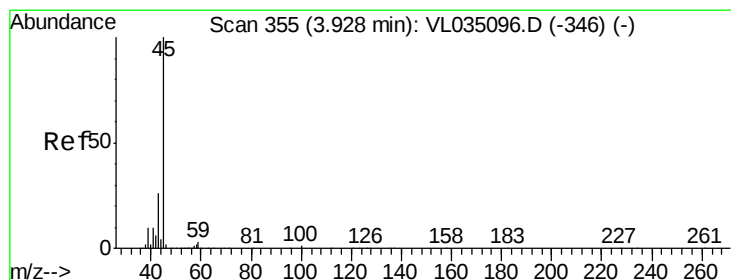
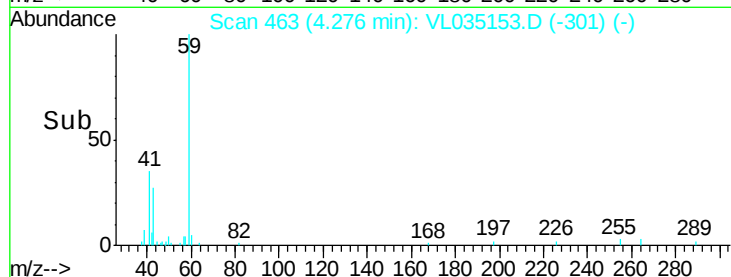
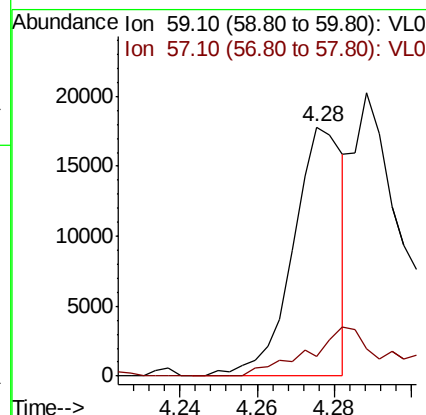
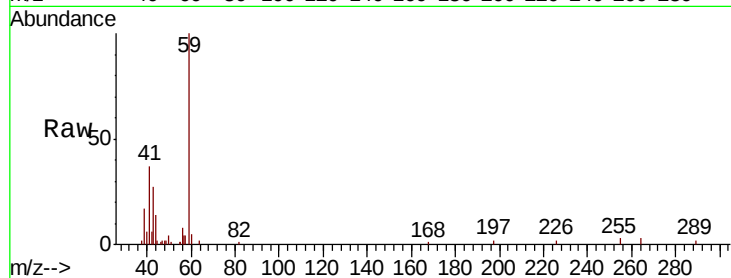


#17

tert-Butyl alcohol
 Concen: 0.148 ppbv
 RT: 4.28 min Scan# 463
 Delta R.T. 0.02 min
 Lab File: VL035153.D
 Acq: 6 Jul 2020 19:47

Instrument :
 MSVOA_L
 ClientSampleId :
 EXHAUST-02

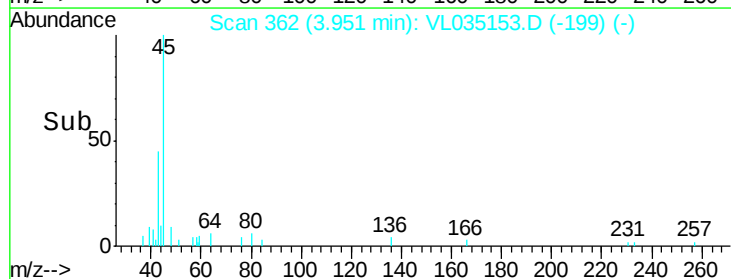
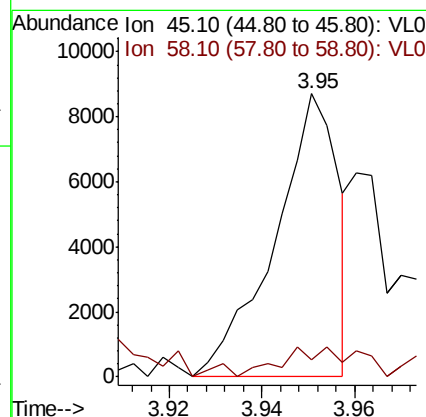
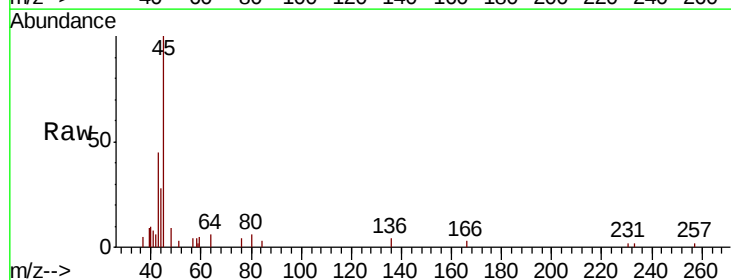
Tot Ion: 59 Resp: 16013
 Ion Ratio Lower Upper
 59 100
 57 32.3 8.6 12.8#

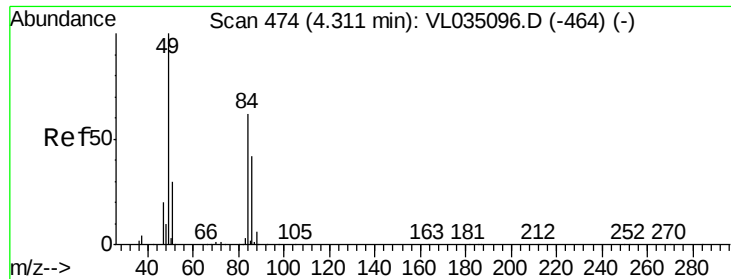


#19

Isopropyl Alcohol
 Concen: 0.104 ppbv
 RT: 3.95 min Scan# 362
 Delta R.T. 0.02 min
 Lab File: VL035153.D
 Acq: 6 Jul 2020 19:47

Tgt Ion: 45 Resp: 8299
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.8 2.8#

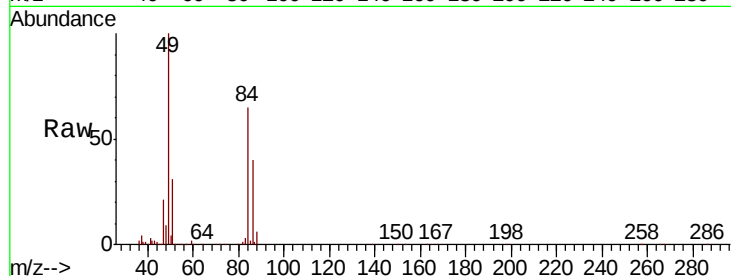




#20
Methvlene Chloride
Concen: 3.904 ppbv
RT: 4.31 min Scan# 474
Delta R.T. 0.00 min
Lab File: VL035153.D
Acq: 6 Jul 2020 19:47

Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

Tot Ion:	84	Resp:	193519
Ion	Ratio	Lower	Upper
84	100		
49	153.4	128.8	193.2
51	48.1	38.7	58.1
86	61.8	54.1	81.1



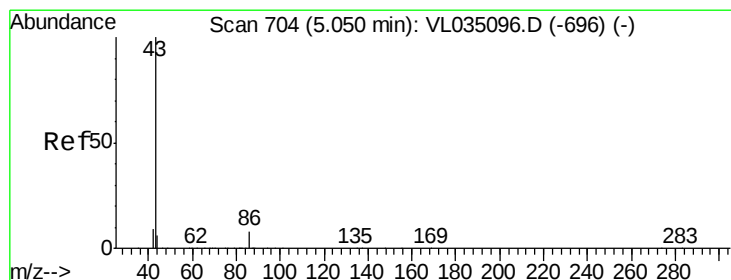
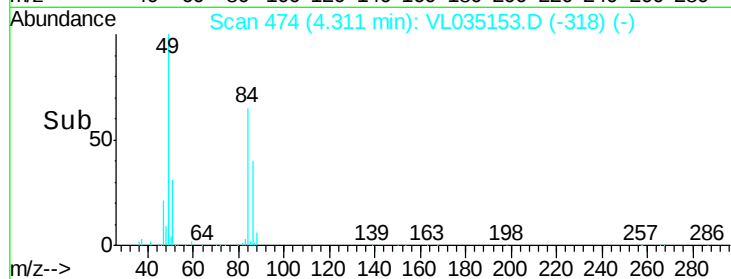
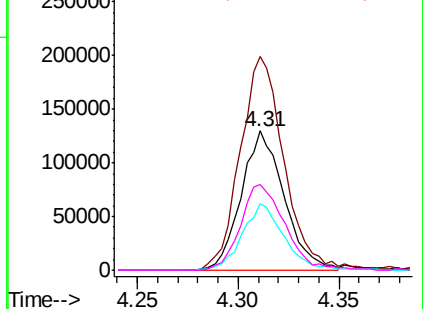
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

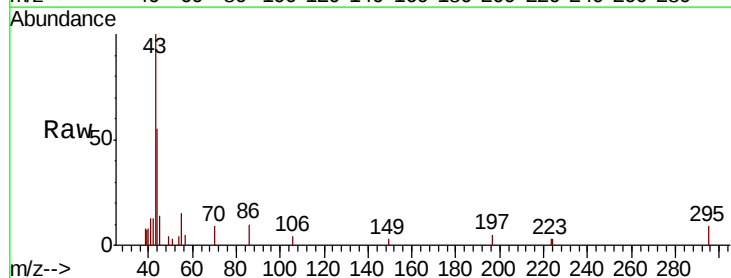
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#23
Vinyl Acetate
Concen: 0.036 ppbv
RT: 5.04 min Scan# 702
Delta R.T. -0.01 min
Lab File: VL035153.D
Acq: 6 Jul 2020 19:47

Tgt Ion:	43	Resp:	5315
Ion	Ratio	Lower	Upper
43	100		
86	19.7	6.2	9.2#
42	3.0	8.1	12.1#
44	82.2	4.6	7.0#



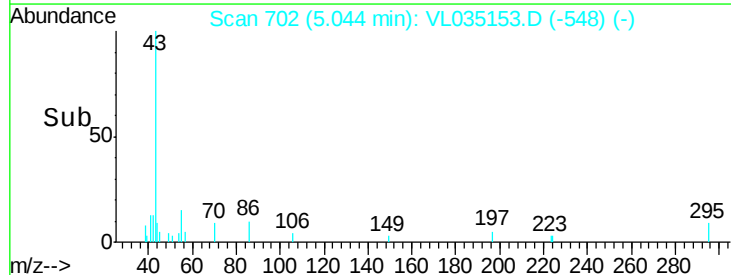
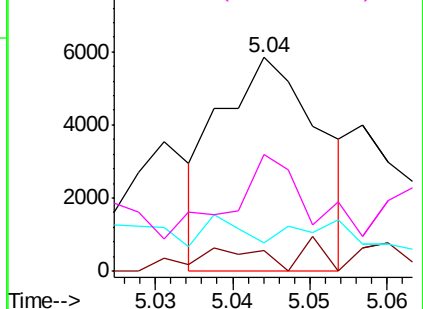
Abundance

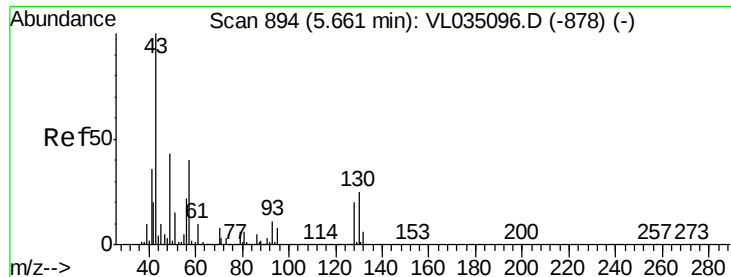
Ion 43.10 (42.80 to 43.80): VL0

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

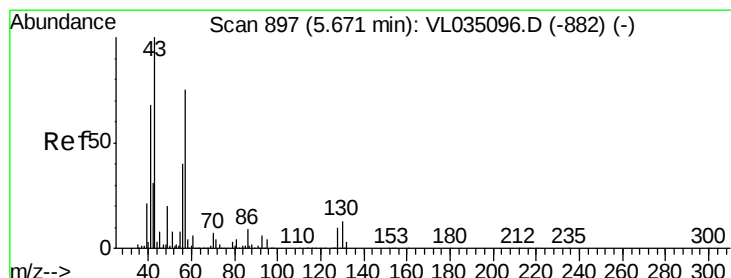
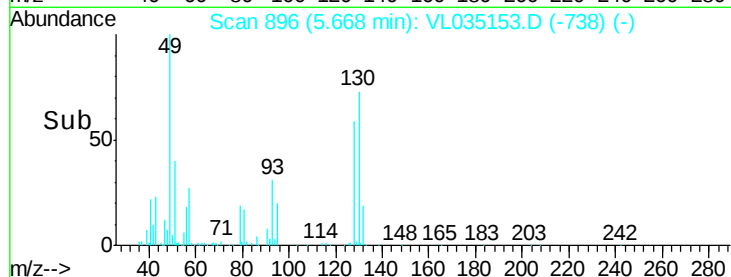
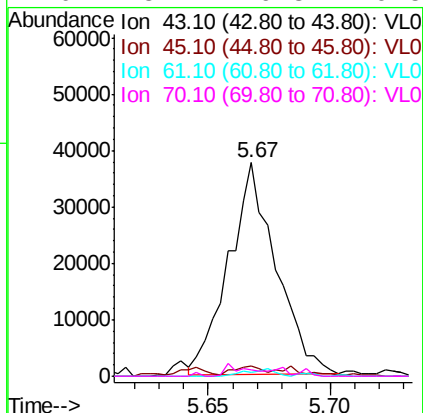
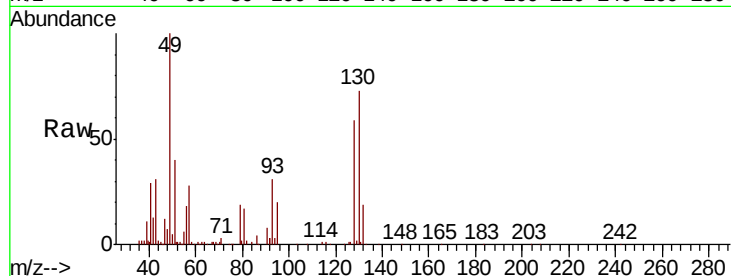




#25
Ethyl Acetate
Concen: 0.228 ppbv
RT: 5.67 min Scan# 896
Delta R.T. 0.01 min
Lab File: VL035153.D
Acq: 6 Jul 2020 19:47

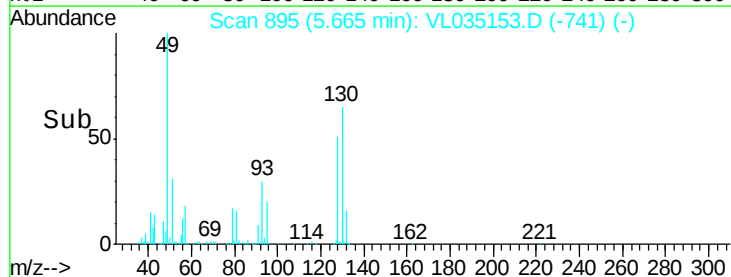
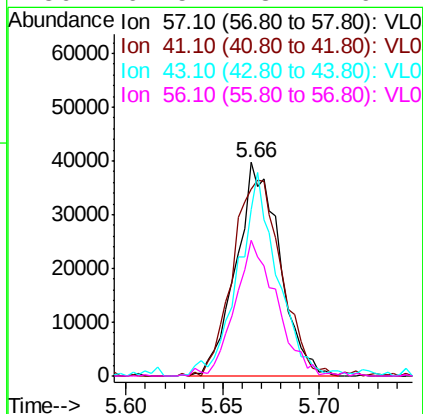
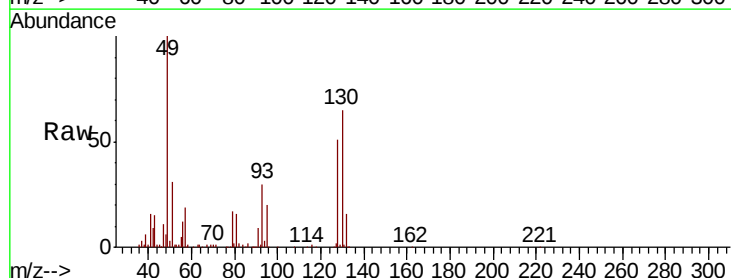
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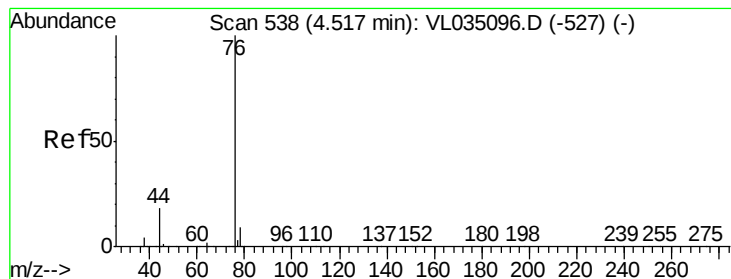
Tot Ion:	43	Resp:	50355
Ion	Ratio	Lower	Upper
43	100		
45	9.2	8.4	12.6
61	2.9	8.0	12.0#
70	5.1	6.3	9.5#



#26
Hexane
Concen: 0.623 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.01 min
Lab File: VL035153.D
Acq: 6 Jul 2020 19:47

Tgt Ion:	57	Resp:	62122
Ion	Ratio	Lower	Upper
57	100		
41	102.9	72.9	109.3
43	87.6	181.3	271.9#
56	61.5	43.1	64.7





#27

Carbon Disulfide

Concen: 0.961 ppbv

RT: 4.52 min Scan# 539

Delta R.T. 0.00 min

Lab File: VL035153.D

Acq: 6 Jul 2020 19:47

Instrument :

MSVOA_L

ClientSampleId :

EXHAUST-02

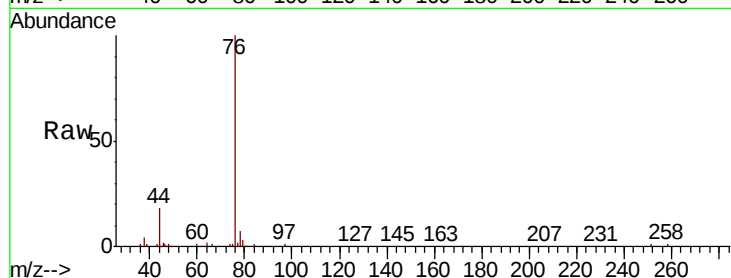
Tot Ion: 76 Resp: 99122

Ion Ratio Lower Upper

76 100

44 22.9 15.8 23.8

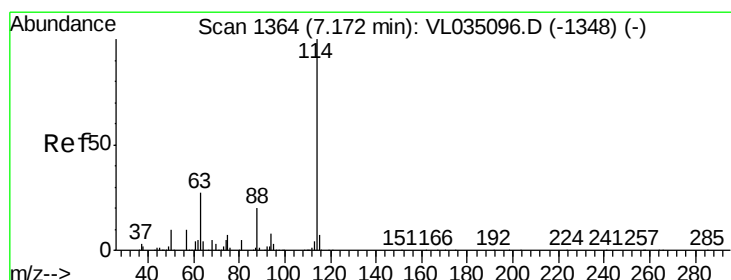
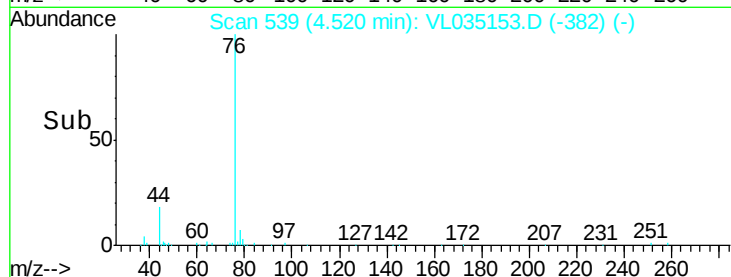
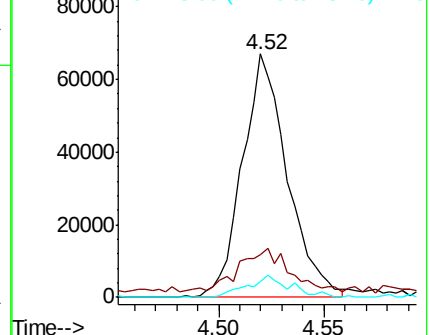
78 9.2 7.6 11.4



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



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.00 min

Lab File: VL035153.D

Acq: 6 Jul 2020 19:47

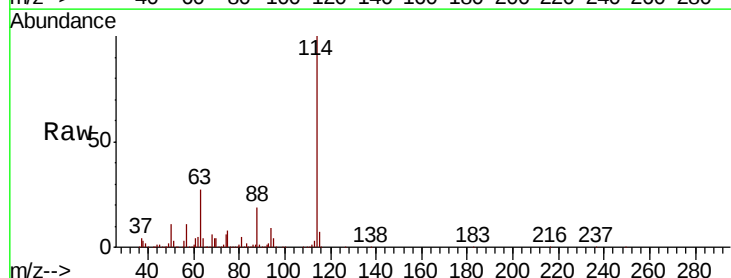
Tgt Ion: 114 Resp: 2385918

Ion Ratio Lower Upper

114 100

63 27.2 21.9 32.9

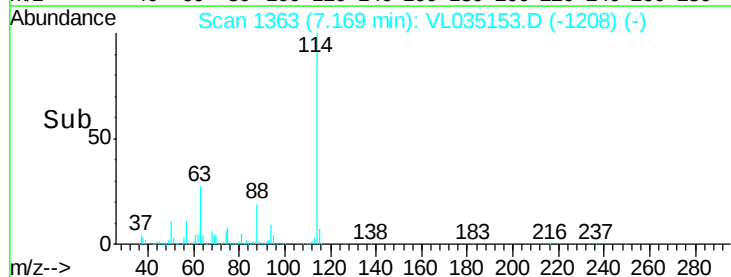
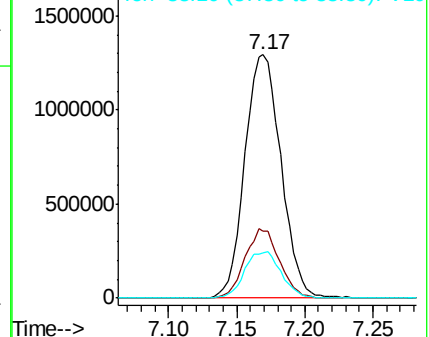
88 19.3 15.6 23.4

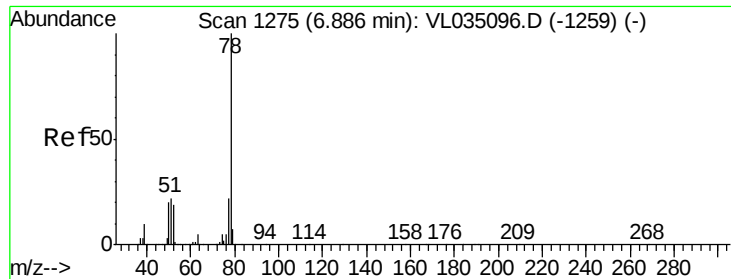


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#36

Benzene

Concen: 0.366 ppbv

RT: 6.88 min Scan# 1273

Delta R.T. -0.01 min

Lab File: VL035153.D

Acq: 6 Jul 2020 19:47

Instrument :

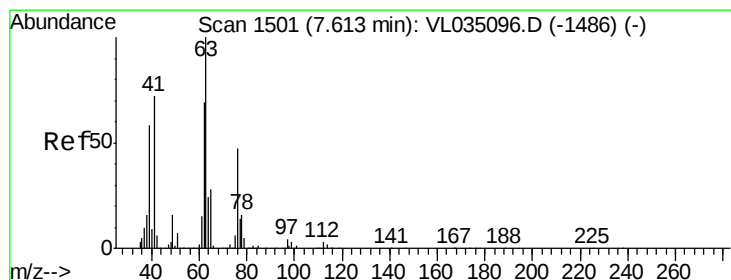
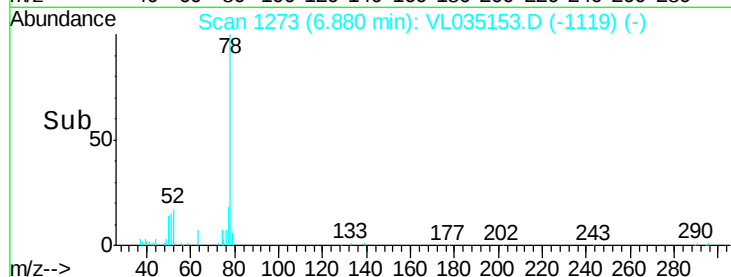
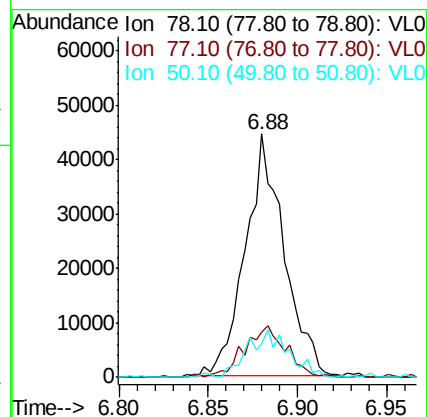
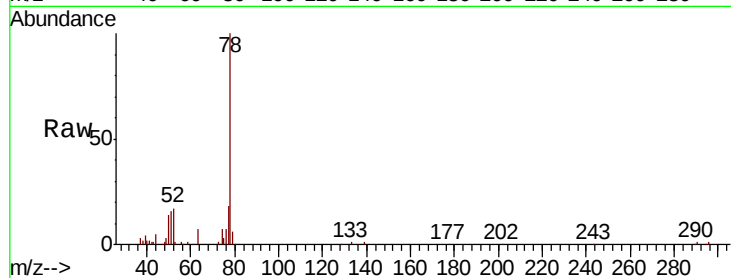
MSVOA_L

ClientSampleId :

EXHAUST-02

Tot Ion: 78 Resp: 67540

Ion	Ratio	Lower	Upper
78	100		
77	17.7	17.8	26.6#
50	13.8	16.2	24.2#



#39

1,2-Dichloropropane

Concen: 8.935 ppbv

RT: 7.17 min Scan# 1362

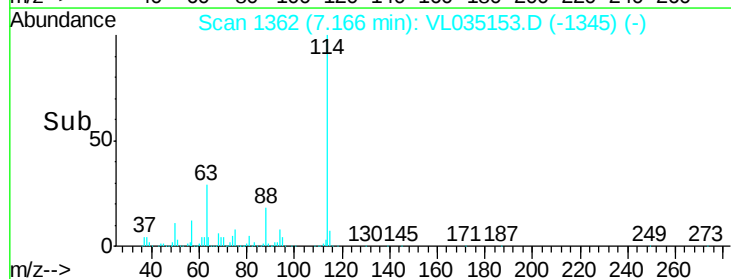
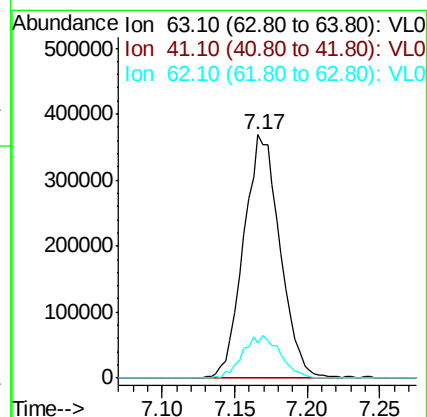
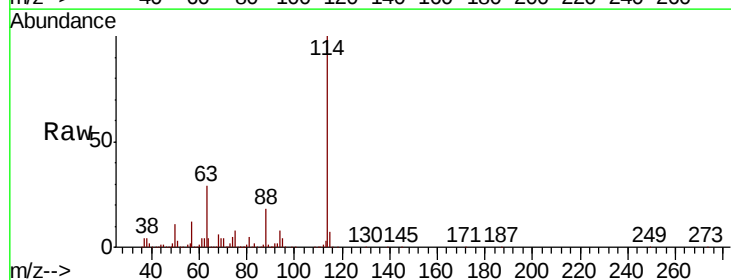
Delta R.T. -0.45 min

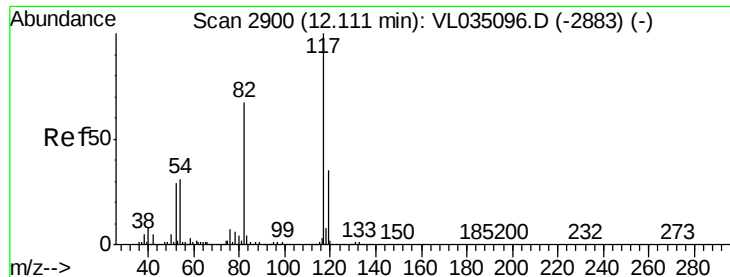
Lab File: VL035153.D

Acq: 6 Jul 2020 19:47

Tgt Ion: 63 Resp: 645629

Ion	Ratio	Lower	Upper
63	100		
41	0.1	58.0	87.0#
62	14.5	55.4	83.0#

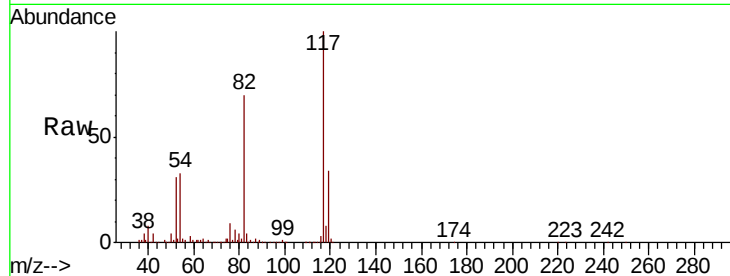




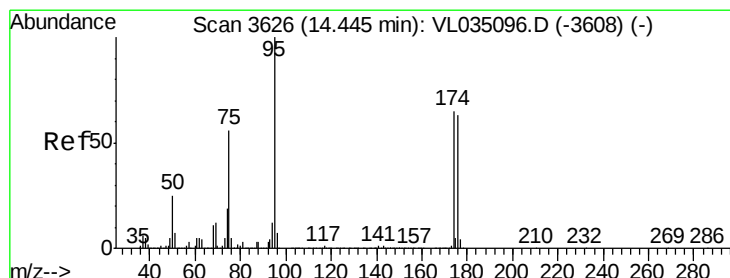
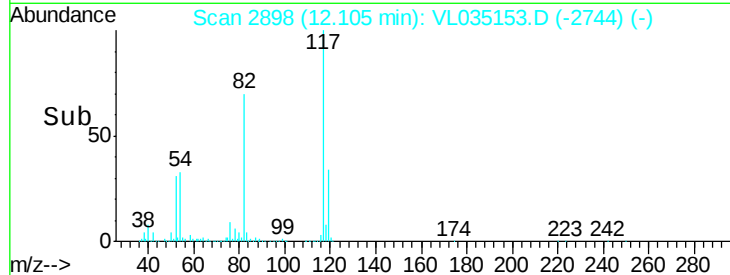
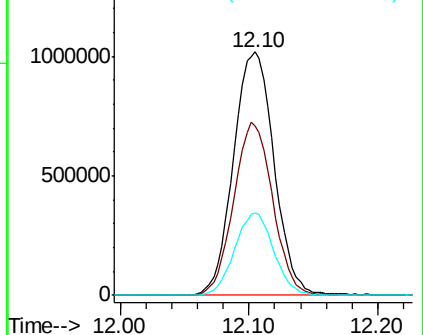
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2898
Delta R.T. -0.01 min
Lab File: VL035153.D
Acq: 6 Jul 2020 19:47

Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

Tot Ion:117 Resp: 2227338
Ion Ratio Lower Upper
117 100
82 68.8 50.4 75.6
119 32.7 25.4 38.0

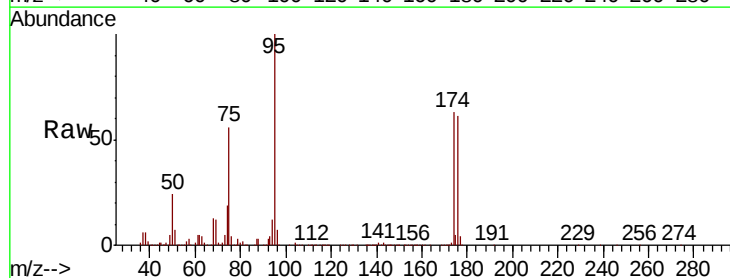


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 10.172 ppbv
RT: 14.44 min Scan# 3625
Delta R.T. -0.00 min
Lab File: VL035153.D
Acq: 6 Jul 2020 19:47

Tgt Ion: 95 Resp: 1882122
Ion Ratio Lower Upper
95 100
174 64.9 52.2 78.2
175 4.7 4.0 6.0



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

