

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091620\
 Data File : VL035630.D
 Acq On : 16 Sep 2020 15:46
 Operator : SY/AP
 Sample : L4026-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 TRC-IA-01

Manual Integrations
 APPROVED

MMDadoda
 9/17/2020 1:52:26 PM

Quant Time: Sep 17 07:25:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 14 2020
 QLast Update : Mon Sep 14 15:19:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1017533	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4114935	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	4247509	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3189305	10.57	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	47173m	0.268	ppbv	
3) Chlorodifluoromethane	2.98	51	61760m	0.549	ppbv	
4) Chloromethane	3.13	50	37798	0.627	ppbv	95
9) Propene	3.01	41	16333	0.376	ppbv	# 80
11) Trichlorofluoromethane	3.94	101	66696	0.259	ppbv	98
13) Ethanol	3.63	45	12860451	1195.547	ppbv	92
15) Acetone	3.84	43	1152509	10.270	ppbv	99
17) tert-Butyl alcohol	4.33	59	75001	0.549	ppbv	98
20) Methylene Chloride	4.33	84	1702023	20.363	ppbv	95
26) Hexane	5.68	57	567018	5.048	ppbv	# 49
34) 2-Butanone	5.24	43	71279	0.584	ppbv	99
35) Carbon Tetrachloride	7.01	117	15433m	0.075	ppbv	
36) Benzene	6.89	78	27836	0.105	ppbv	96
44) 2,2,4-Trimethylpentane	7.87	57	41008	0.117	ppbv	# 75
52) Tetrachloroethene	11.23	164	5652m	0.036	ppbv	
53) Toluene	9.81	91	135342	0.404	ppbv	93
59) m/p-Xylene	12.97	91	67755m	0.185	ppbv	
74) 1,2,4-Trimethylbenzene	16.77	105	62221	0.131	ppbv	# 72

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

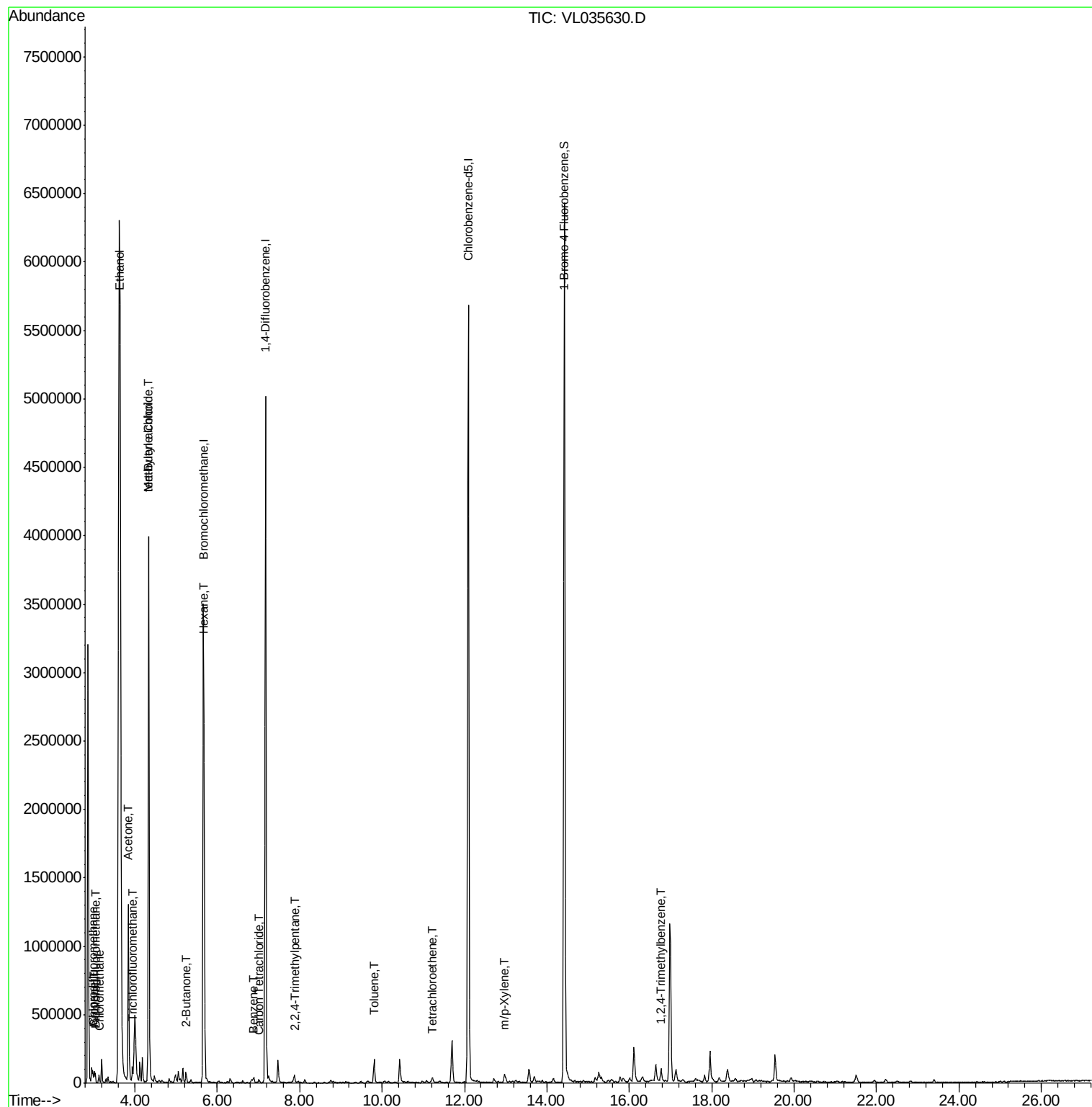
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091620\
Data File : VL035630.D
Acq On : 16 Sep 2020 15:46
Operator : SY/AP
Sample : L4026-01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

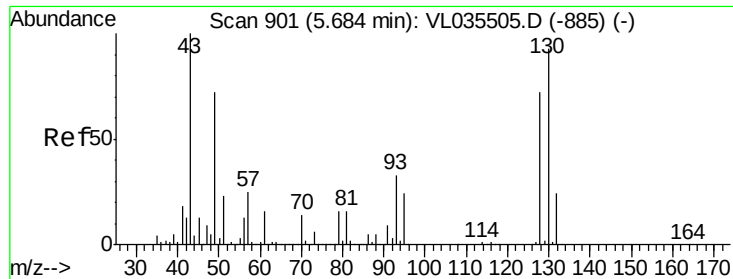
Instrument :
MSVOA_L
ClientSampleId :
TRC-IA-01

Manual Integrations
APPROVED

MMDadoda
9/17/2020 1:52:26 PM

Quant Time: Sep 17 07:25:27 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep
QLast Update : Mon Sep 14 15:19:50 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.01 min

Lab File: VL035630.D

Acq: 16 Sep 2020 15:46

Instrument :

MSVOA_L

ClientSampleId :

TRC-IA-01

Tot Ion: 49 Resp: 1017533

Ion Ratio Lower Upper

49 100

128 90.7 50.0 150.1

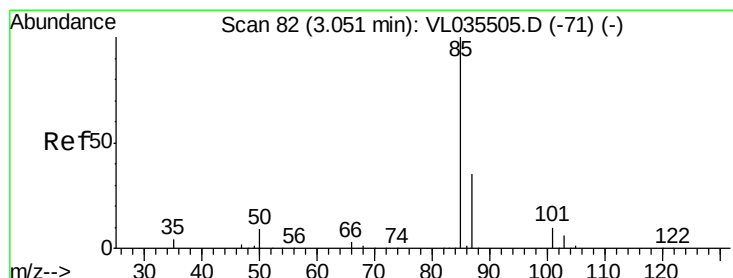
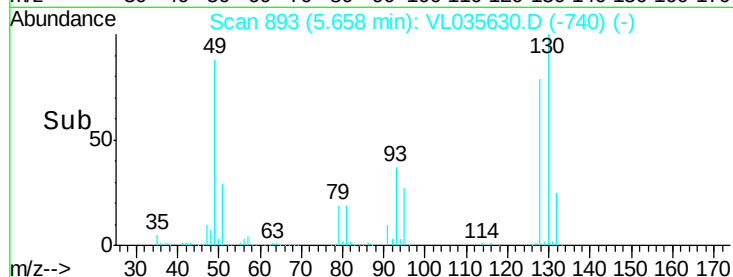
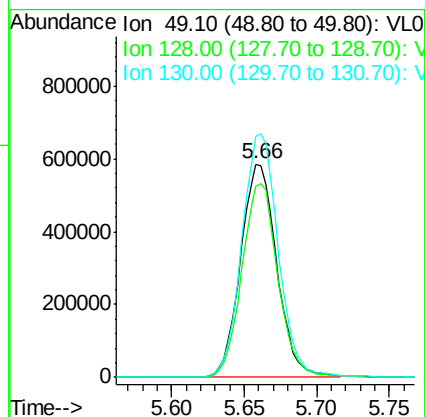
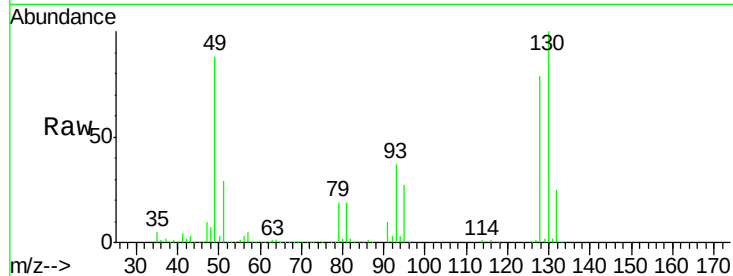
130 115.7 64.4 193.2

Manual Integrations

APPROVED

MMDadoda

9/17/2020 1:52:26 PM



#2

Dichlorodifluoromethane

Concen: 0.268 ppbv m

RT: 3.04 min Scan# 78

Delta R.T. 0.00 min

Lab File: VL035630.D

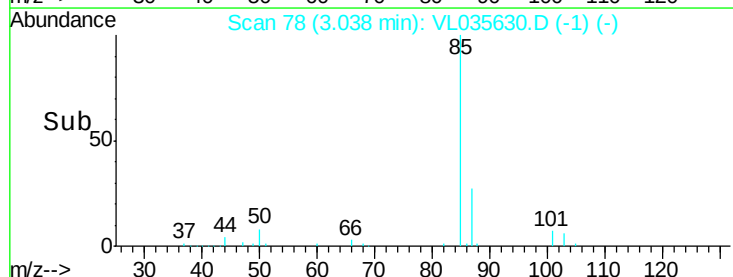
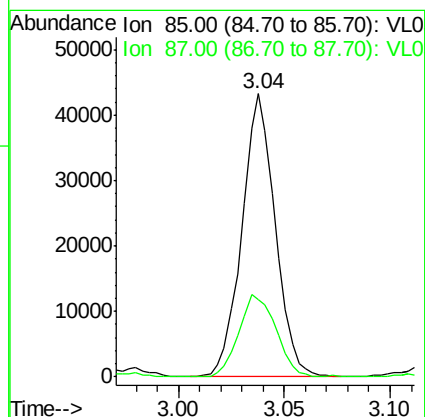
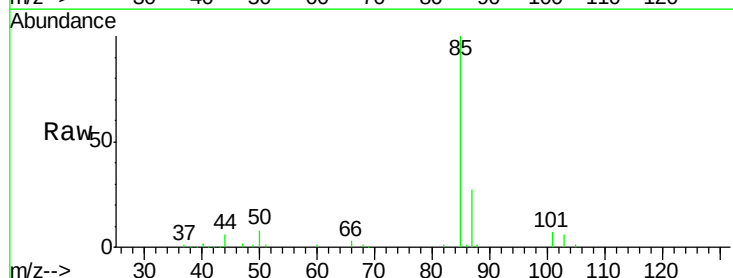
Acq: 16 Sep 2020 15:46

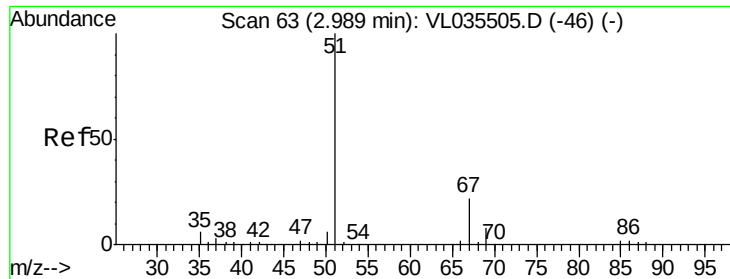
Tgt Ion: 85 Resp: 47173

Ion Ratio Lower Upper

85 100

87 27.5 28.0 42.0#





#3

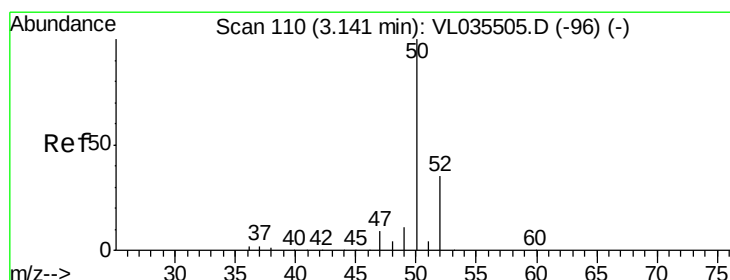
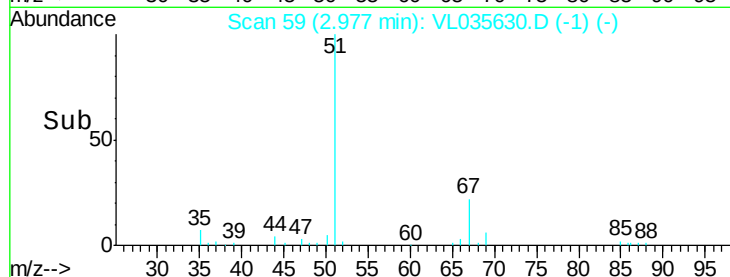
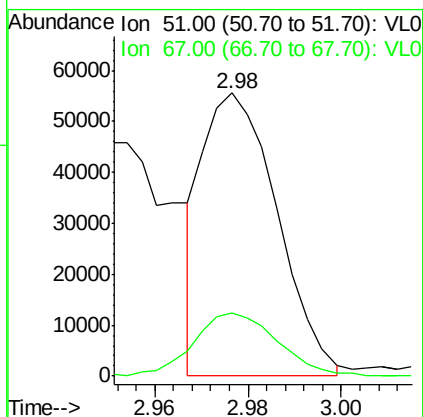
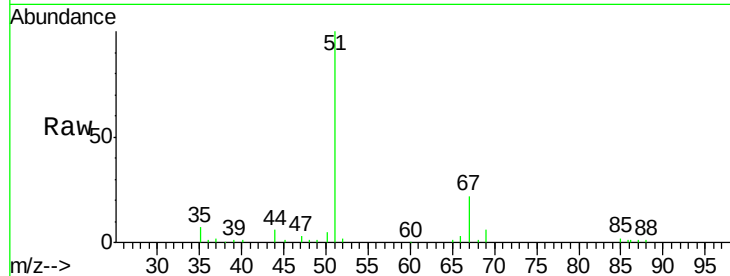
Chlorodifluoromethane
Concen: 0.549 ppbv
RT: 2.98 min Scan# 59
Delta R.T. 0.00 min
Lab File: VL035630.D
Acq: 16 Sep 2020 15:46

Instrument :
MSVOA_L
ClientSampleId :
TRC-IA-01

Tot Ion: 51 Resp: 61760
Ion Ratio Lower Upper
51 100
67 25.2 17.8 26.8

Manual Integrations
APPROVED

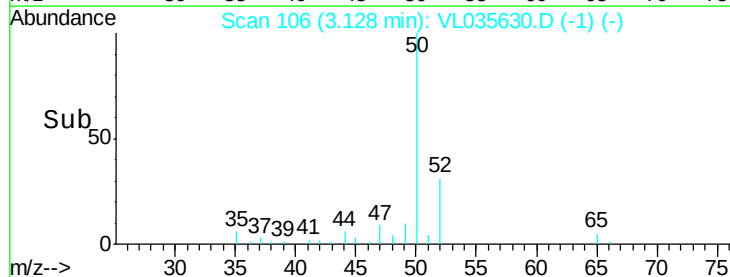
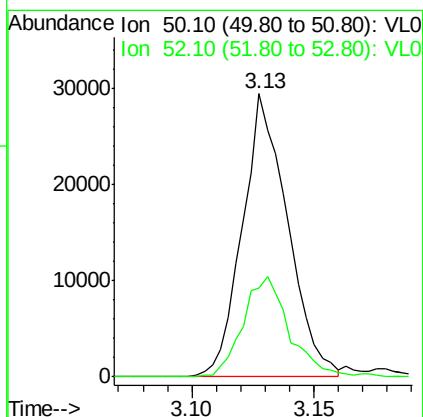
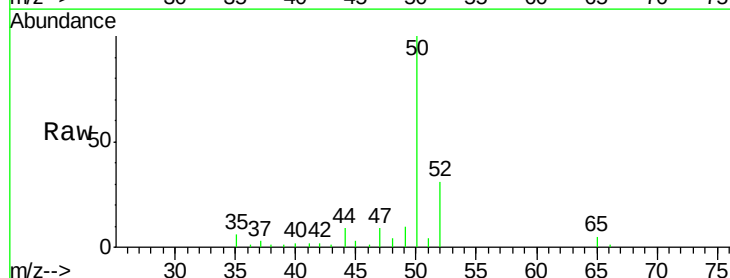
MMDadoda
9/17/2020 1:52:26 PM

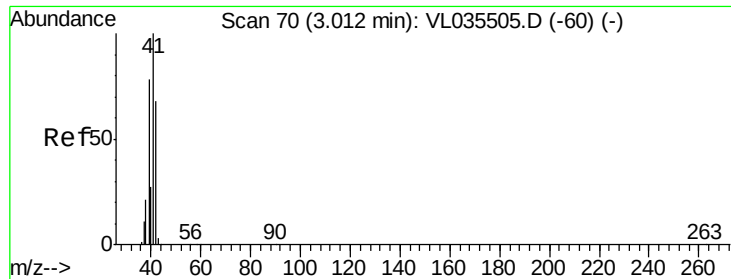


#4

Chloromethane
Concen: 0.627 ppbv
RT: 3.13 min Scan# 106
Delta R.T. -0.00 min
Lab File: VL035630.D
Acq: 16 Sep 2020 15:46

Tgt Ion: 50 Resp: 37798
Ion Ratio Lower Upper
50 100
52 31.4 27.7 41.5





#9

Propene

Concen: 0.376 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.01 min

Lab File: VL035630.D

Acq: 16 Sep 2020 15:46

Instrument :

MSVOA_L

ClientSampleId :

TRC-IA-01

Tot Ion: 41 Resp: 16333

Ion Ratio Lower Upper

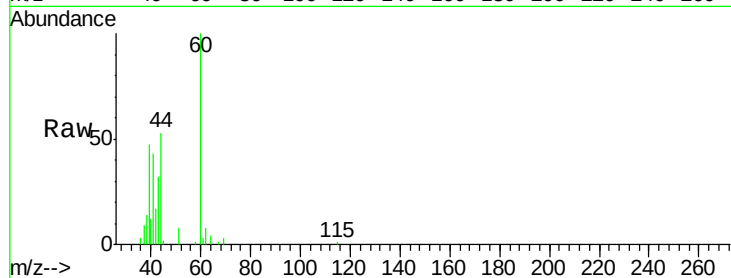
41 100

42 54.1 56.3 84.5#

Manual Integrations
APPROVED

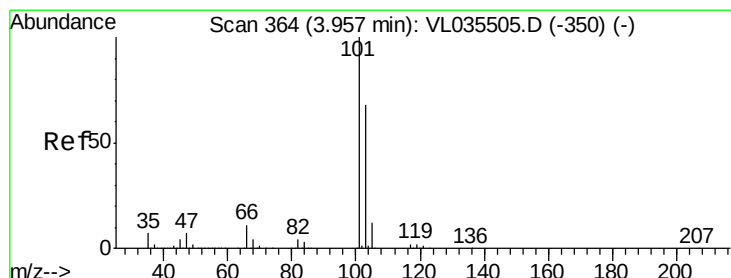
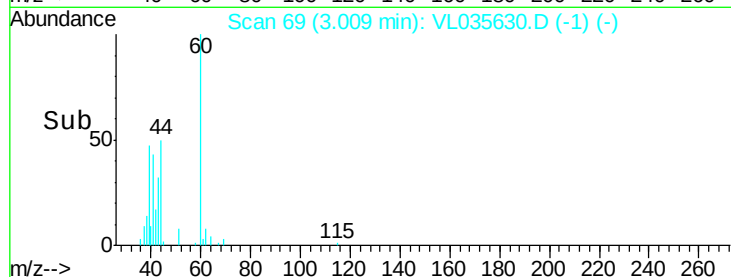
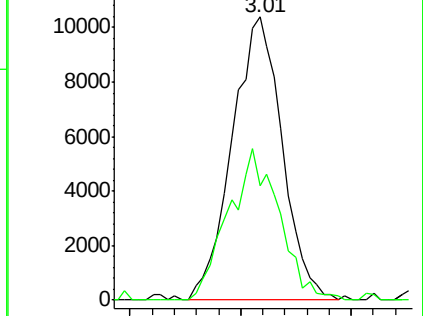
MMDadoda

9/17/2020 1:52:26 PM



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.259 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.00 min

Lab File: VL035630.D

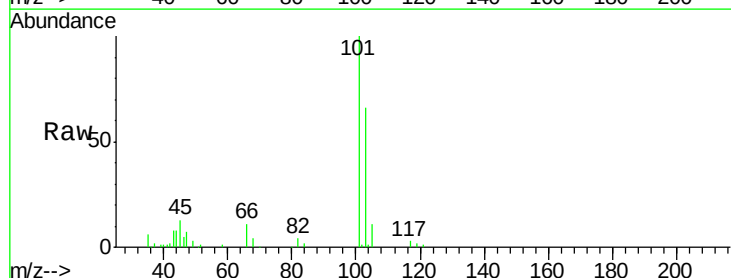
Acq: 16 Sep 2020 15:46

Tgt Ion: 101 Resp: 66696

Ion Ratio Lower Upper

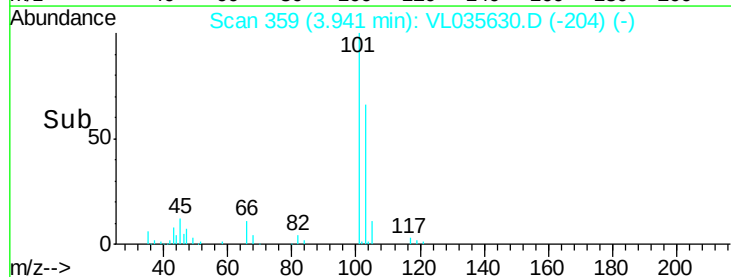
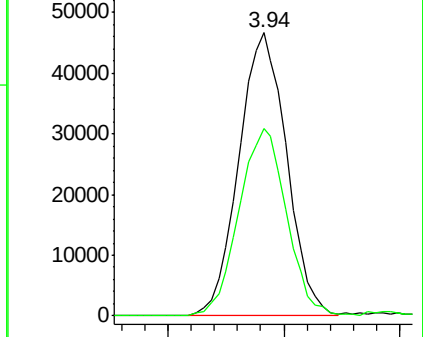
101 100

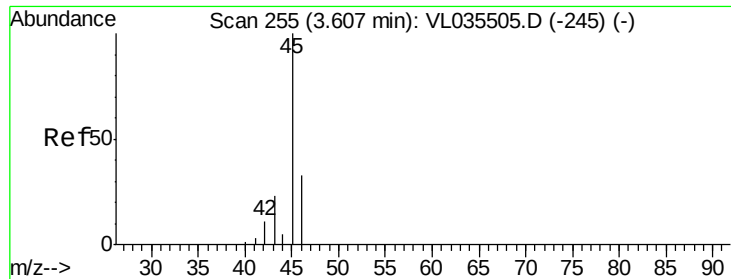
103 66.3 54.5 81.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





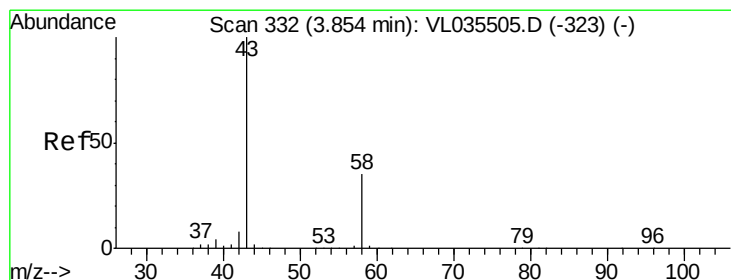
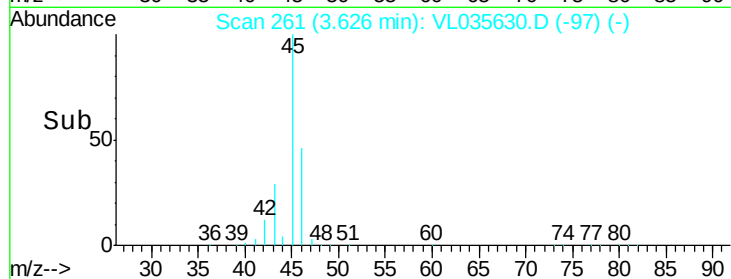
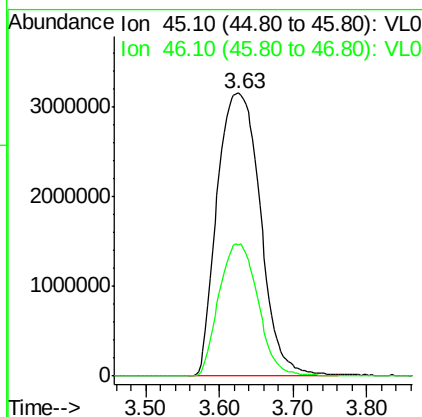
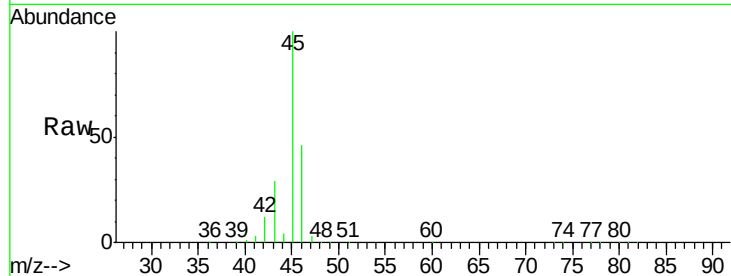
#13
Ethanol
Concen: 1195.547 ppbv
RT: 3.63 min Scan# 261
Delta R.T. 0.03 min
Lab File: VL035630.D
Acq: 16 Sep 2020 15:46

Instrument :
MSVOA_L
ClientSampleId :
TRC-IA-01

Tot Ion: 45 Resp:12860451
Ion Ratio Lower Upper
45 100
46 42.4 15.2 60.6

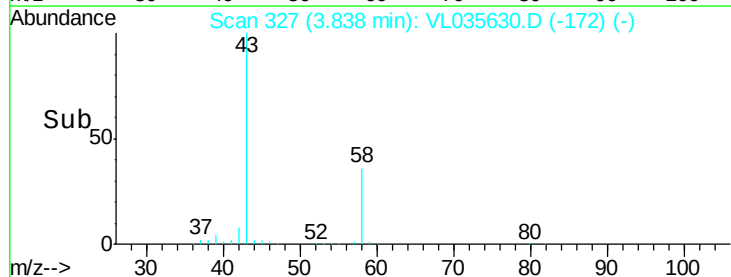
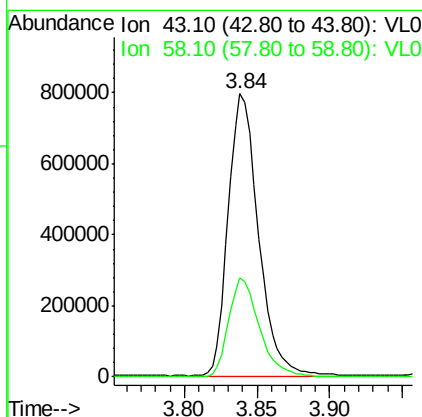
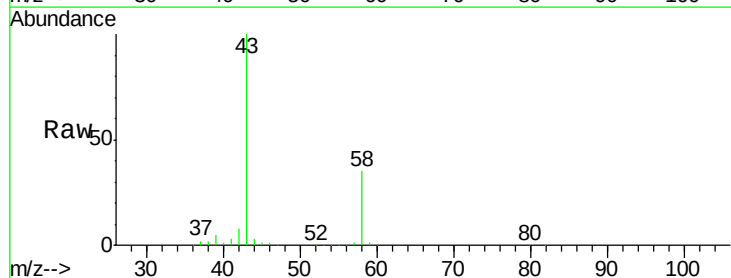
Manual Integrations
APPROVED

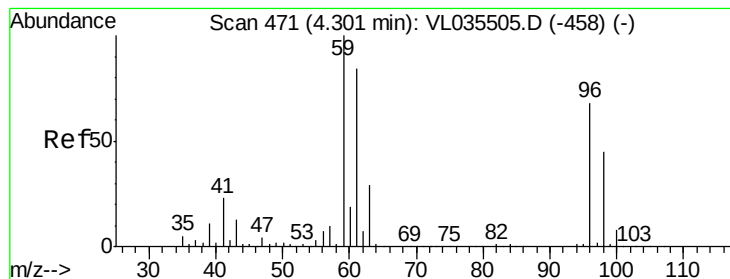
MMDadoda
9/17/2020 1:52:26 PM



#15
Acetone
Concen: 10.270 ppbv
RT: 3.84 min Scan# 327
Delta R.T. -0.00 min
Lab File: VL035630.D
Acq: 16 Sep 2020 15:46

Tgt Ion: 43 Resp: 1152509
Ion Ratio Lower Upper
43 100
58 35.9 28.4 42.6





#17

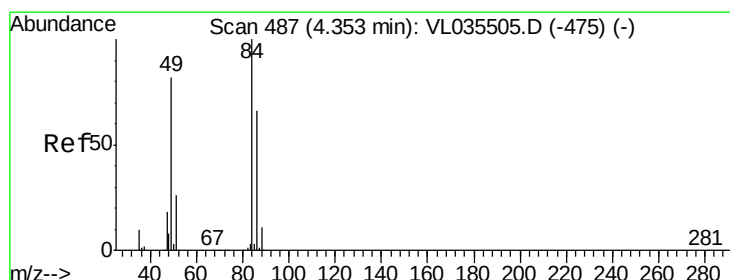
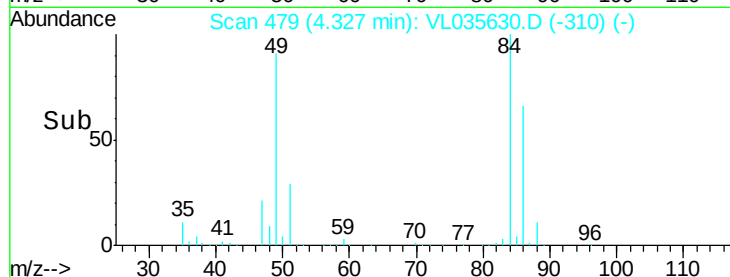
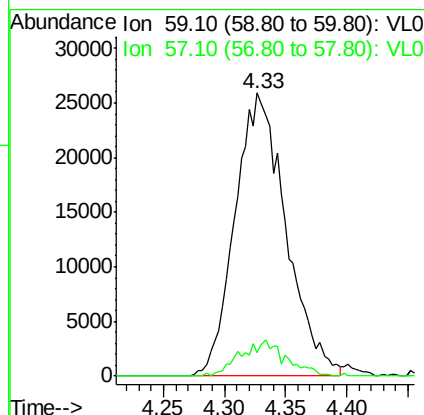
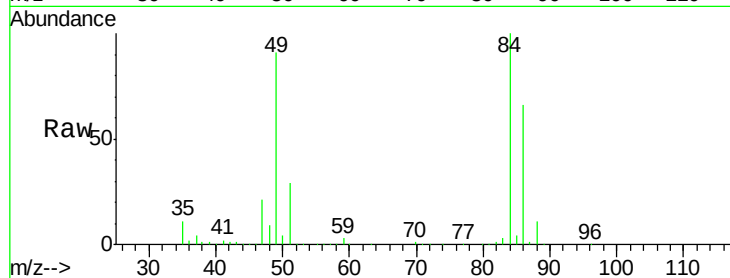
tert-Butyl alcohol
 Concen: 0.549 ppbv
 RT: 4.33 min Scan# 479
 Delta R.T. 0.04 min
 Lab File: VL035630.D
 Acq: 16 Sep 2020 15:46

Instrument :
 MSVOA_L
 ClientSampled :
 TRC-IA-01

Tot Ion: 59 Resp: 75001
 Ion Ratio Lower Upper
 59 100
 57 11.3 8.4 12.6

Manual Integrations
 APPROVED

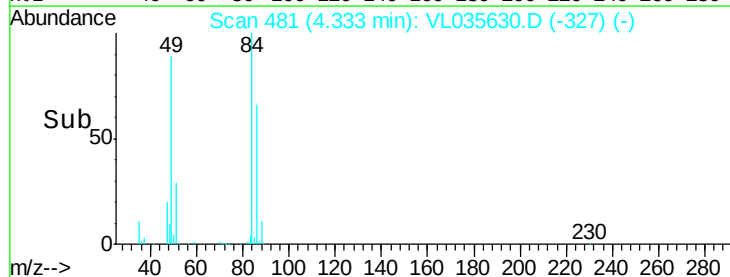
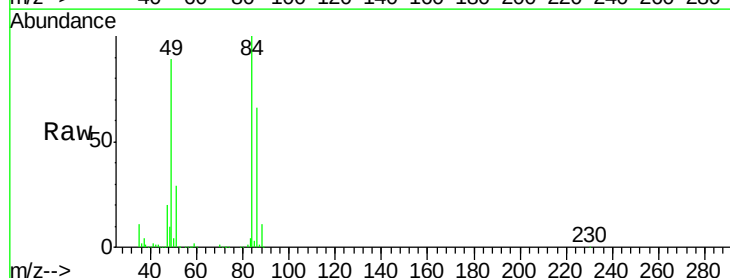
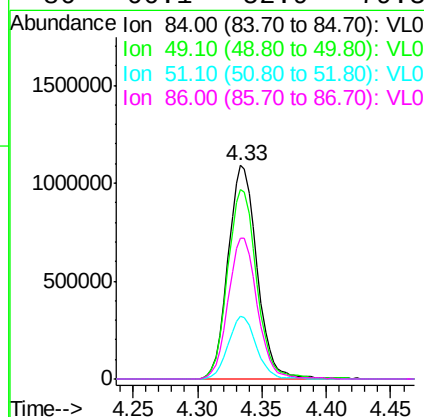
MMDadoda
 9/17/2020 1:52:26 PM

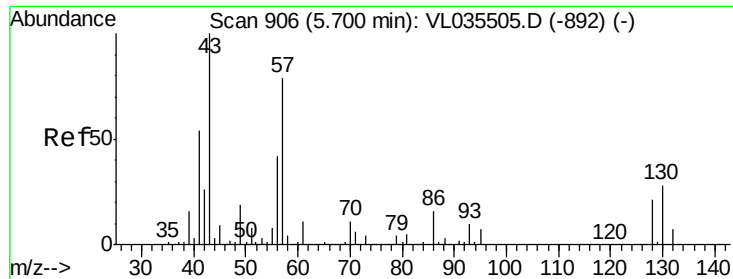


#20

Methylene Chloride
 Concen: 20.363 ppbv
 RT: 4.33 min Scan# 481
 Delta R.T. -0.00 min
 Lab File: VL035630.D
 Acq: 16 Sep 2020 15:46

Tgt Ion: 84 Resp: 1702023
 Ion Ratio Lower Upper
 84 100
 49 89.0 65.4 98.0
 51 29.4 21.5 32.3
 86 66.1 52.9 79.3





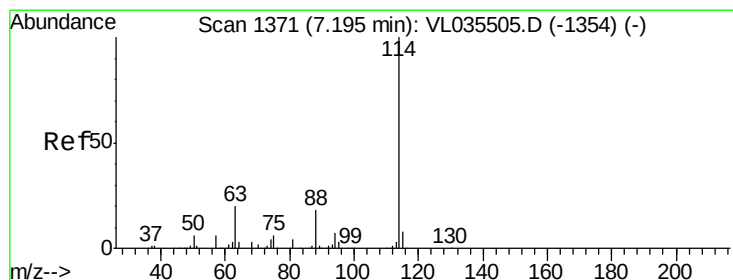
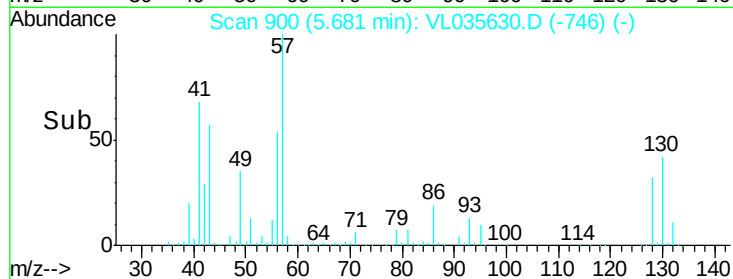
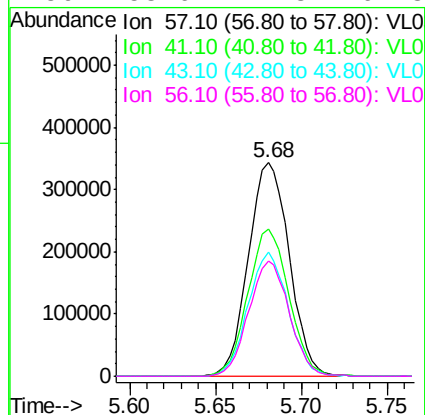
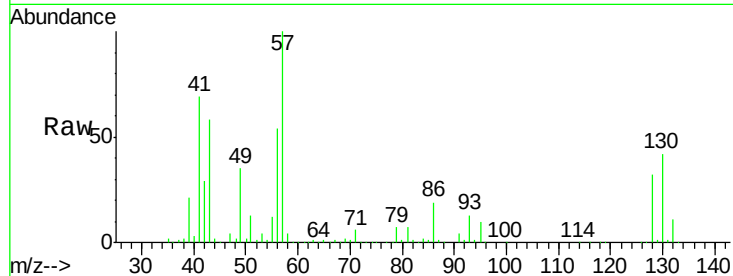
#26
Hexane
Concen: 5.048 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.00 min
Lab File: VL035630.D
Acq: 16 Sep 2020 15:46

Instrument :
MSVOA_L
ClientSampled :
TRC-IA-01

Tot Ion	Ratio	Lower	Upper
57	100		
41	69.3	55.9	83.9
43	56.9	141.8	212.8#
56	53.6	41.8	62.8

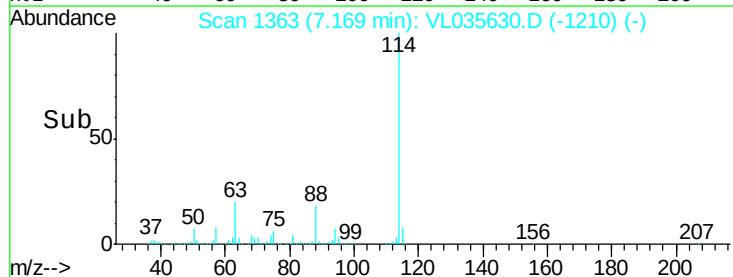
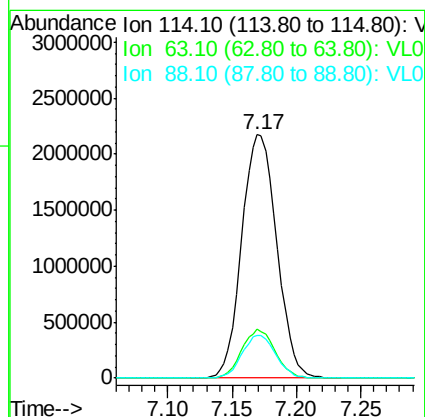
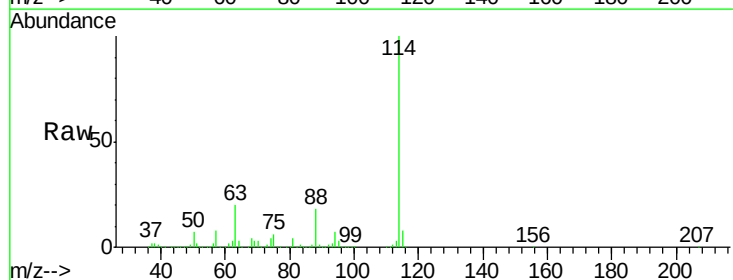
Manual Integrations
APPROVED

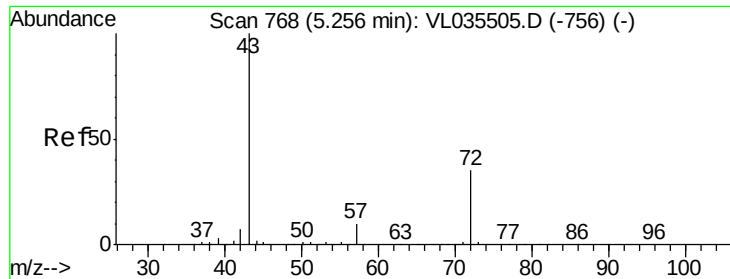
MMDadoda
9/17/2020 1:52:26 PM



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.01 min
Lab File: VL035630.D
Acq: 16 Sep 2020 15:46

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.1	14.7	22.1
88	17.0	13.4	20.2





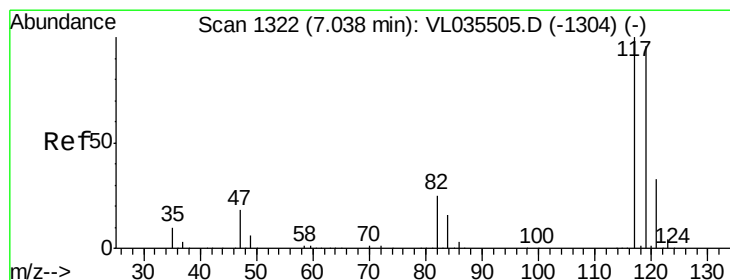
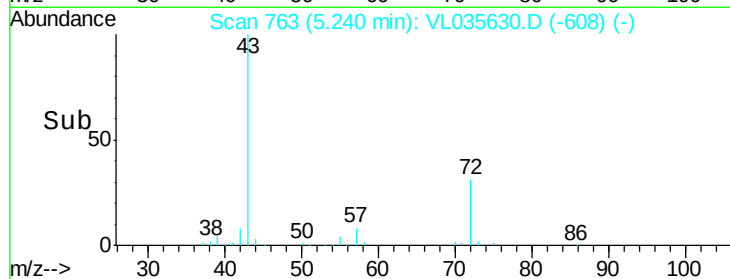
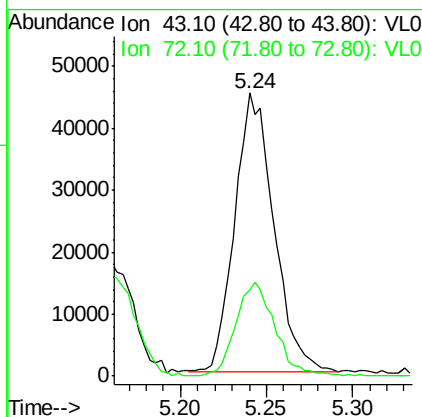
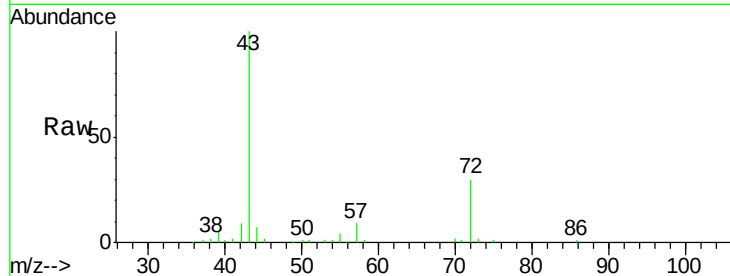
#34
2-Butanone
Concen: 0.584 ppbv
RT: 5.24 min Scan# 763
Delta R.T. -0.00 min
Lab File: VL035630.D
Acq: 16 Sep 2020 15:46

Instrument :
MSVOA_L
ClientSampleId :
TRC-IA-01

Tot Ion: 43 Resp: 71279
Ion Ratio Lower Upper
43 100
72 33.9 27.7 41.5

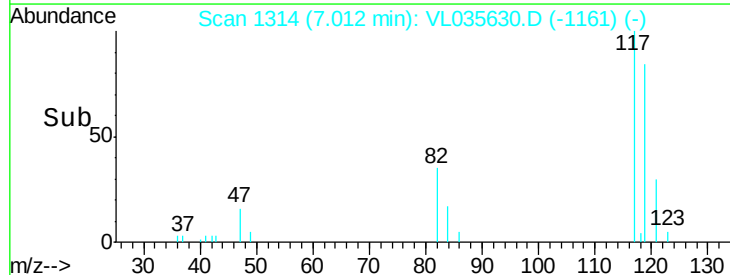
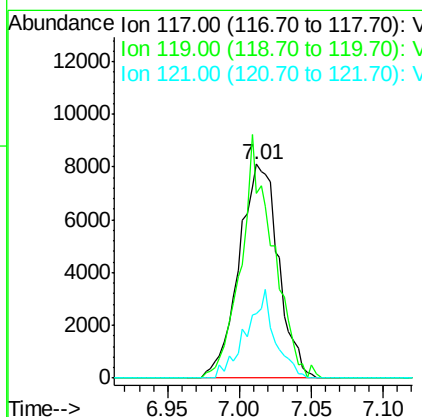
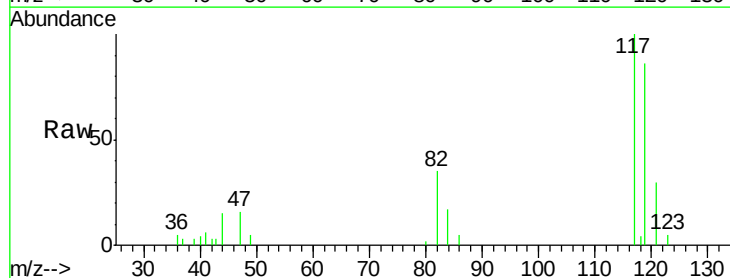
Manual Integrations
APPROVED

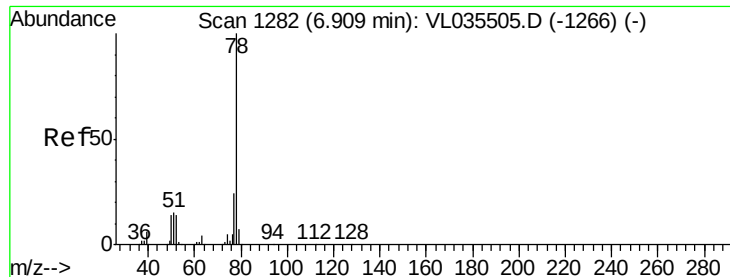
MMDadoda
9/17/2020 1:52:26 PM



#35
Carbon Tetrachloride
Concen: 0.075 ppbv m
RT: 7.01 min Scan# 1314
Delta R.T. -0.01 min
Lab File: VL035630.D
Acq: 16 Sep 2020 15:46

Tgt Ion: 117 Resp: 15433
Ion Ratio Lower Upper
117 100
119 86.4 77.2 115.8
121 29.9 26.1 39.1





#36

Benzene

Concen: 0.105 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. -0.01 min

Lab File: VL035630.D

Acq: 16 Sep 2020 15:46

Instrument :

MSVOA_L

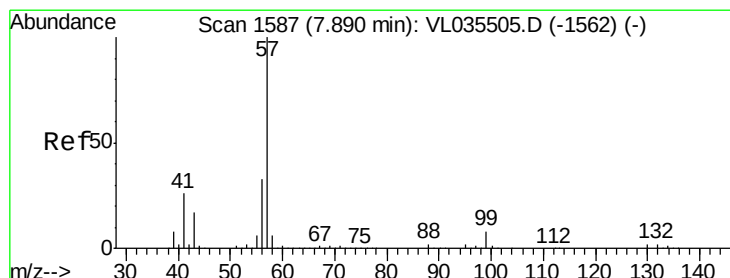
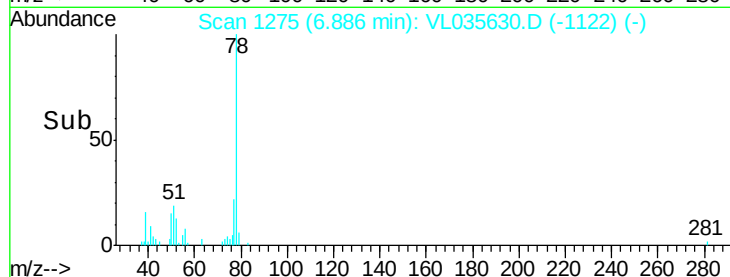
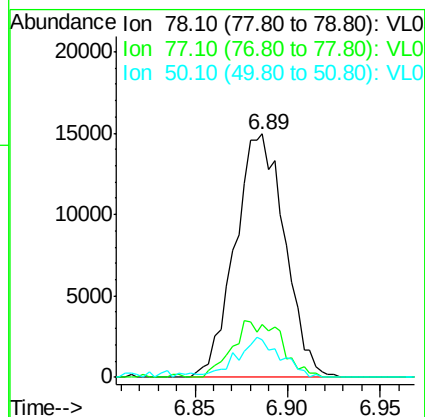
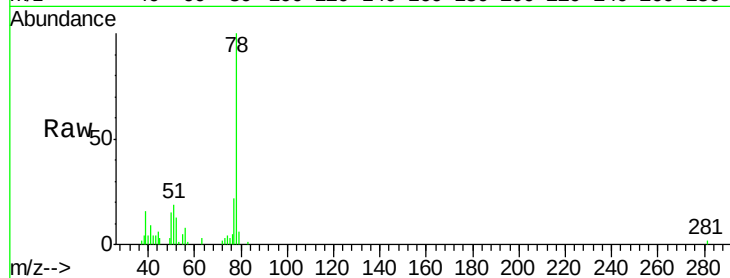
ClientSampleId :

TRC-IA-01

Tot Ion:	78	Resp:	27836
Ion	Ratio	Lower	Upper
78	100		
77	21.9	19.3	28.9
50	15.4	11.0	16.6

Manual Integrations
APPROVED

MMDadoda
9/17/2020 1:52:26 PM



#44

2,2,4-Trimethylpentane

Concen: 0.117 ppbv

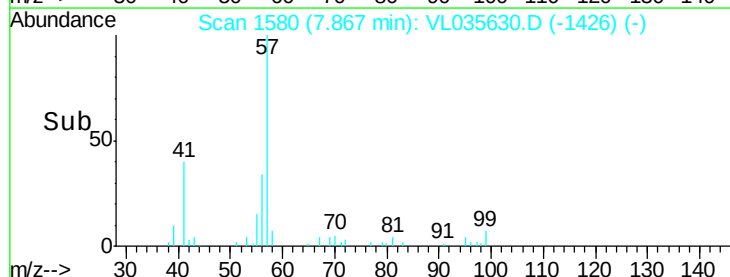
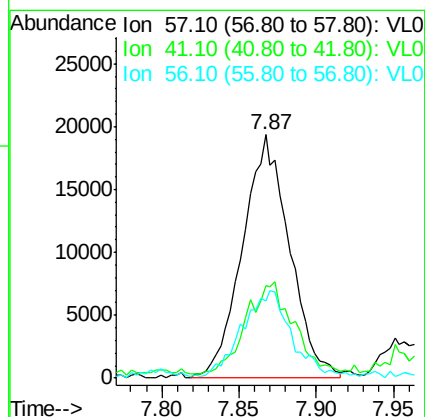
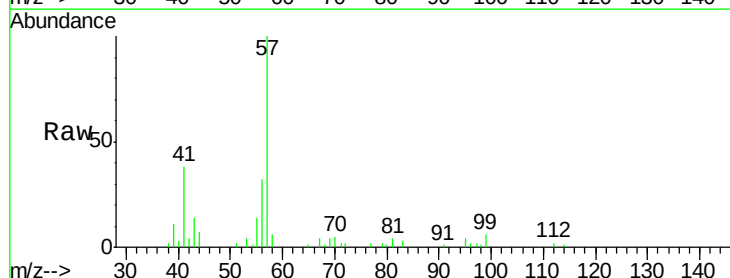
RT: 7.87 min Scan# 1580

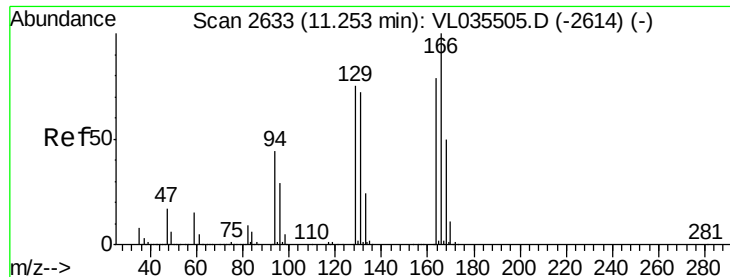
Delta R.T. -0.00 min

Lab File: VL035630.D

Acq: 16 Sep 2020 15:46

Tgt Ion:	57	Resp:	41008
Ion	Ratio	Lower	Upper
57	100		
41	43.7	20.5	30.7#
56	40.9	25.3	37.9#





#52

Tetrachloroethene

Concen: 0.036 ppbv m

RT: 11.23 min Scan# 2627

Delta R.T. 0.00 min

Lab File: VL035630.D

Acq: 16 Sep 2020 15:46

Instrument :

MSVOA_L

ClientSampleId :

TRC-IA-01

Tot Ion:164 Resp: 5652

Ion Ratio Lower Upper

164 100

166 82.5 100.9 151.3#

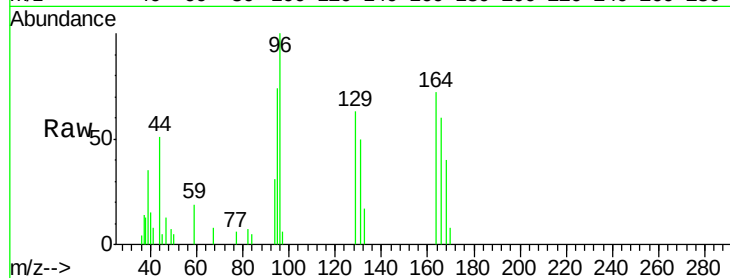
129 87.5 75.3 112.9

131 69.2 73.0 109.4#

Manual Integrations
APPROVED

MMDadoda

9/17/2020 1:52:26 PM

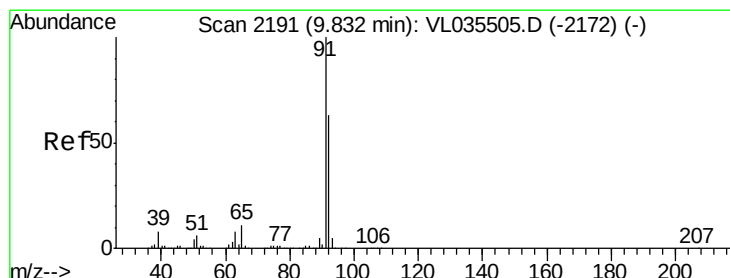
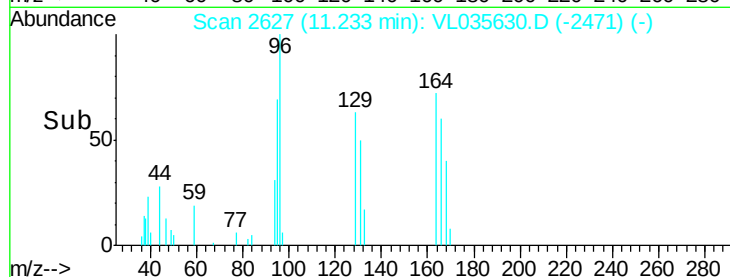
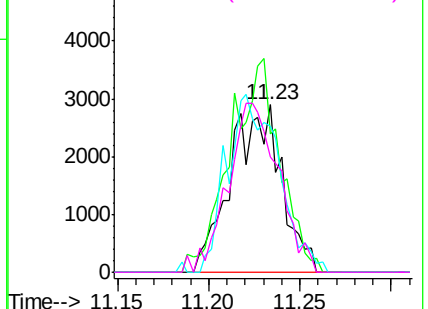


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.404 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. -0.01 min

Lab File: VL035630.D

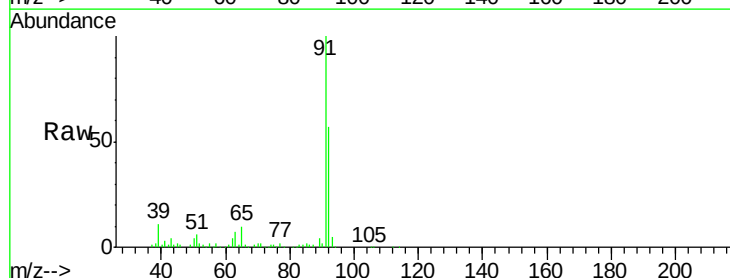
Acq: 16 Sep 2020 15:46

Tgt Ion: 91 Resp: 135342

Ion Ratio Lower Upper

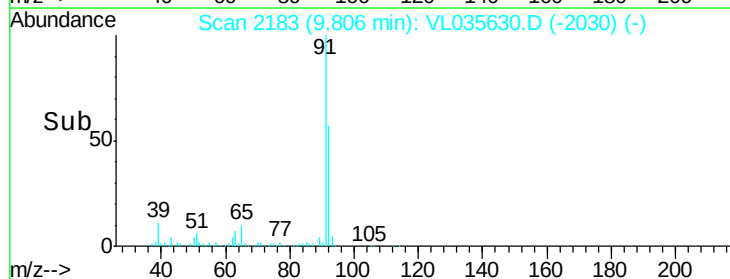
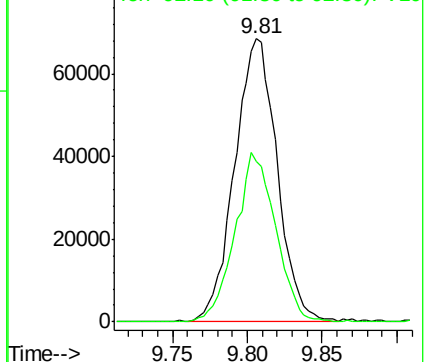
91 100

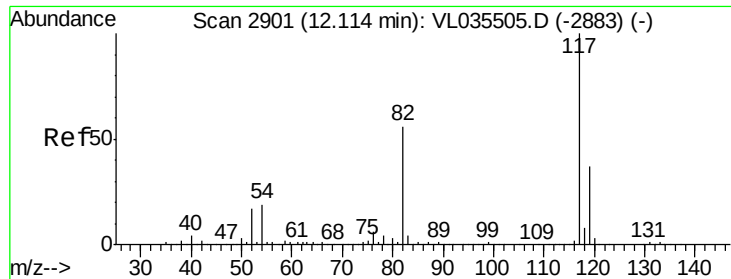
92 57.0 49.8 74.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





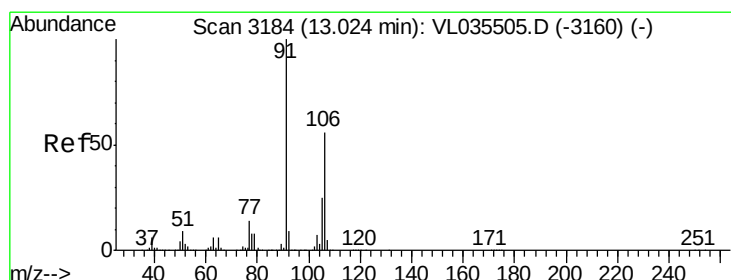
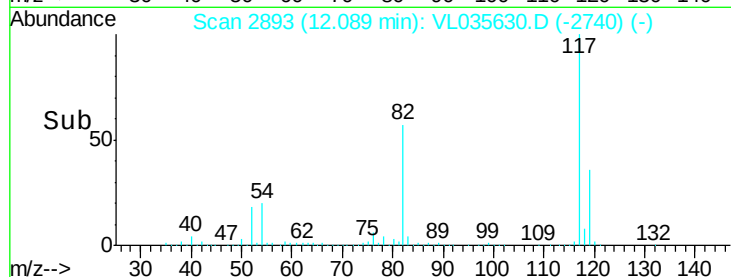
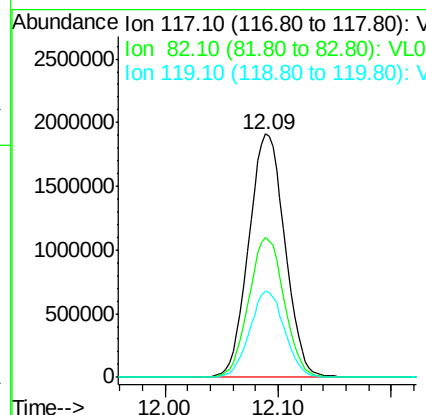
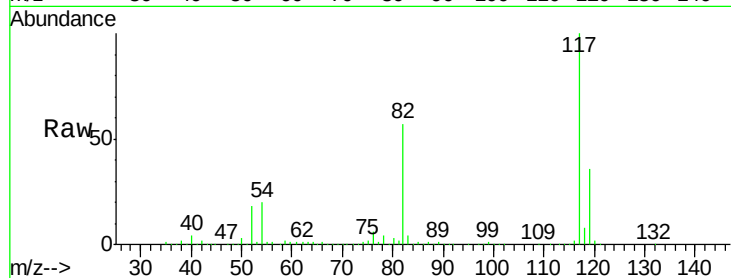
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL035630.D
Acq: 16 Sep 2020 15:46

Instrument :
MSVOA_L
ClientSampleId :
TRC-IA-01

Tot Ion:117 Resp: 4247509
Ion Ratio Lower Upper
117 100
82 56.7 41.6 62.4
119 34.3 29.3 43.9

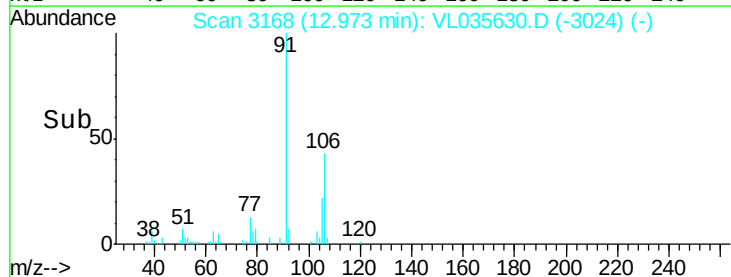
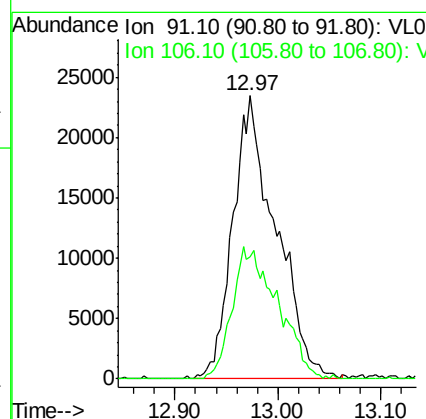
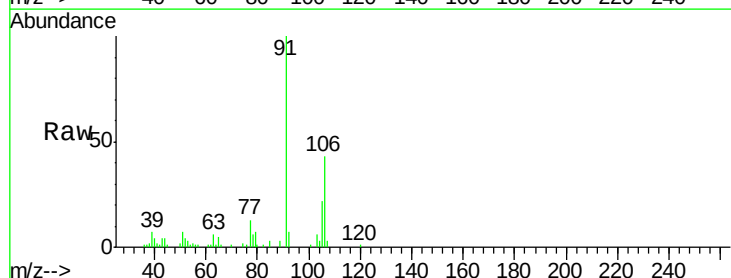
Manual Integrations
APPROVED

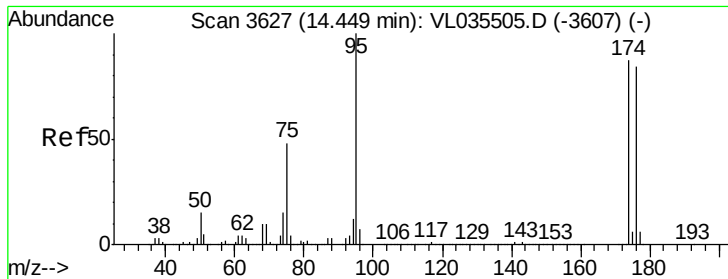
MMDadoda
9/17/2020 1:52:26 PM



#59
m/p-Xylene
Concen: 0.185 ppbv m
RT: 12.97 min Scan# 3168
Delta R.T. -0.04 min
Lab File: VL035630.D
Acq: 16 Sep 2020 15:46

Tgt Ion: 91 Resp: 67755
Ion Ratio Lower Upper
91 100
106 0.0 43.4 65.2#





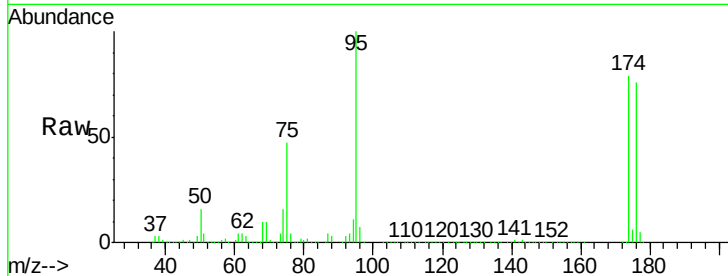
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.573 ppbv
 RT: 14.42 min Scan# 3619
 Delta R.T. -0.01 min
 Lab File: VL035630.D
 Acq: 16 Sep 2020 15:46

Instrument :
 MSVOA_L
 ClientSampleId :
 TRC-IA-01

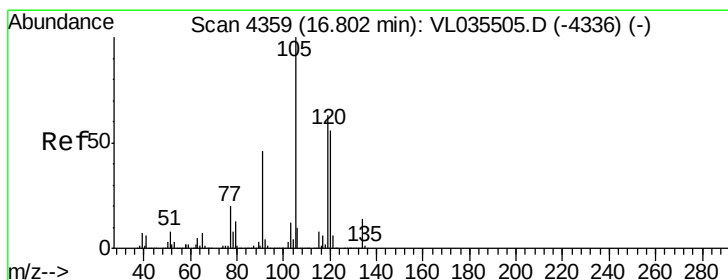
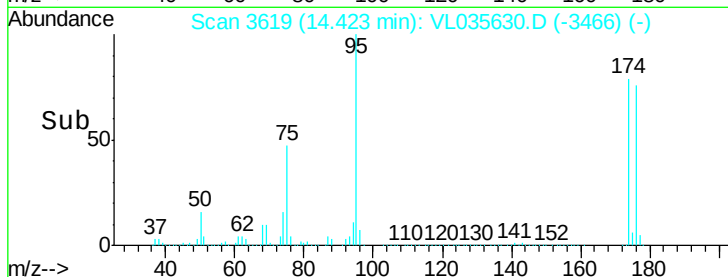
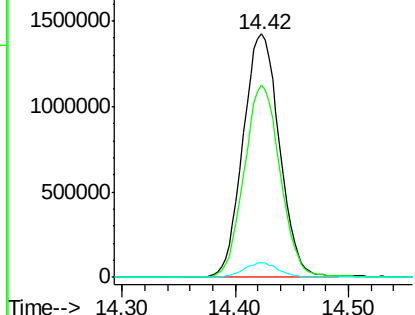
Tot Ion	Ratio	Lower	Upper
95	100		
174	78.9	69.6	104.4
175	5.7	5.1	7.7

Manual Integrations
 APPROVED

MMDadoda
 9/17/2020 1:52:26 PM



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



#74
 1,2,4-Trimethylbenzene
 Concen: 0.131 ppbv
 RT: 16.77 min Scan# 4349
 Delta R.T. -0.01 min
 Lab File: VL035630.D
 Acq: 16 Sep 2020 15:46

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.1	44.4	66.6
91	13.0	37.1	55.7#
77	10.9	16.0	24.0#

Abundance Ion 105.10 (104.80 to 105.80): V
 Ion 120.20 (119.90 to 120.90): V
 Ion 91.10 (90.80 to 91.80): VL0
 Ion 77.10 (76.80 to 77.80): VL0

