

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050620\
 Data File : VL034956.D
 Acq On : 7 May 2020 5:26
 Operator : SY/AP
 Sample : L2507-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1

Manual Integrations
 APPROVED

MMDadoda
 5/7/2020 2:32:18 PM

Quant Time: May 07 08:19:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 0
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1008572	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2338844	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2142729	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	1773725	10.23	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	41447	0.290	ppbv	99
3) Chlorodifluoromethane	2.95	51	30107m	0.261	ppbv	
4) Chloromethane	3.11	50	35170	0.533	ppbv	94
9) Propene	2.98	41	19844	0.397	ppbv	100
11) Trichlorofluoromethane	3.92	101	36298	0.246	ppbv	89
13) Ethanol	3.58	45	298136	18.082	ppbv	98
15) Acetone	3.83	43	332608	2.494	ppbv	92
19) Isopropyl Alcohol	3.95	45	122541	1.378	ppbv #	90
20) Methylene Chloride	4.33	84	47581	1.078	ppbv	85
26) Hexane	5.68	57	33262	0.343	ppbv #	40
34) 2-Butanone	5.24	43	20780	0.143	ppbv	99
35) Carbon Tetrachloride	7.03	117	11031m	0.075	ppbv	
36) Benzene	6.90	78	30695	0.159	ppbv #	90
44) 2,2,4-Trimethylpentane	7.89	57	33713m	0.098	ppbv	
53) Toluene	9.83	91	46036m	0.225	ppbv	

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

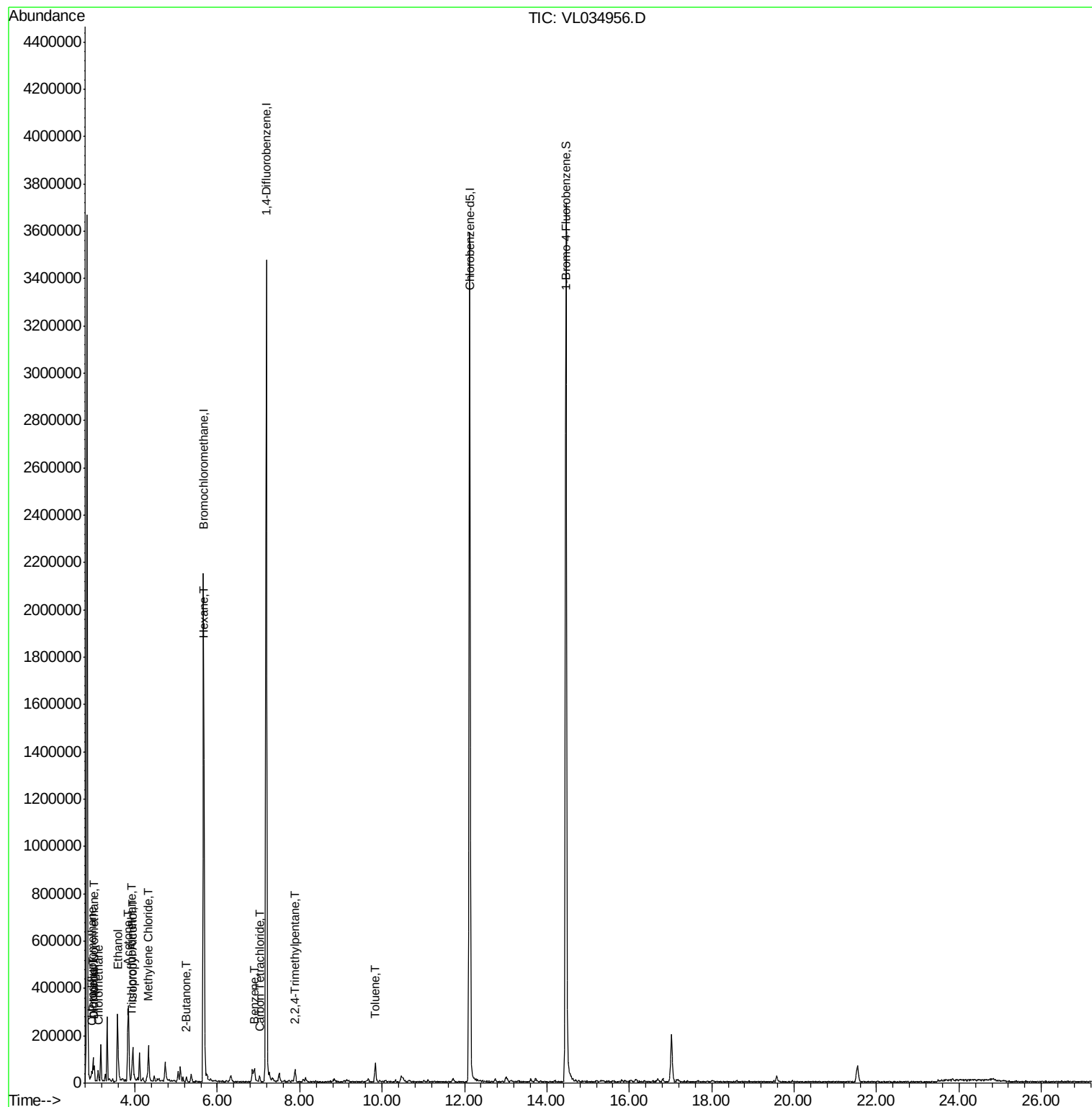
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL050620\
Data File : VL034956.D
Acq On : 7 May 2020 5:26
Operator : SY/AP
Sample : L2507-01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

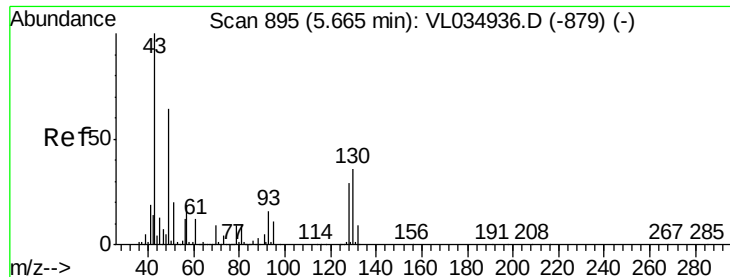
Instrument :
MSVOA_L
ClientSampleId :
OA-1

Manual Integrations
APPROVED

MMDadoda
5/7/2020 2:32:18 PM

Quant Time: May 07 08:19:17 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed May
QLast Update : Wed May 06 14:49:39 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.00 min

Lab File: VL034956.D

Acq: 7 May 2020 5:26

Instrument :

MSVOA_L

ClientSampled :

QA-1

Tot Ion: 49 Resp: 1008572

Ion Ratio Lower Upper

49 100

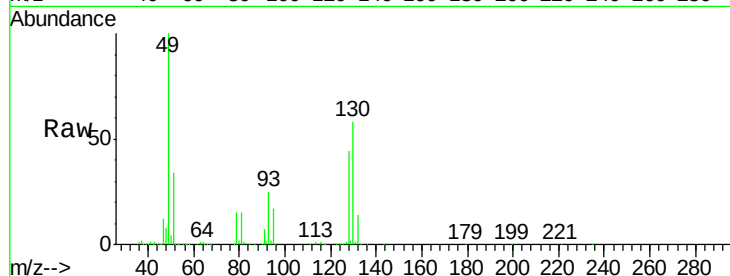
128 43.8 22.1 66.5

130 58.1 29.1 87.3

Manual Integrations
APPROVED

MMDadoda

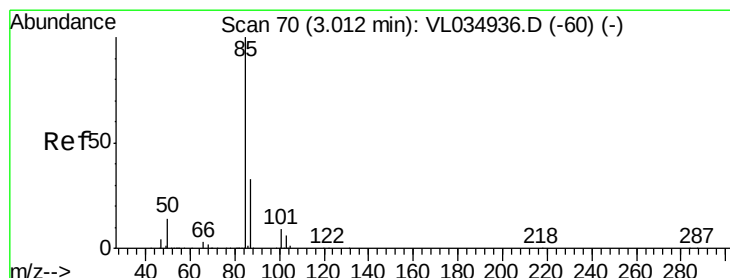
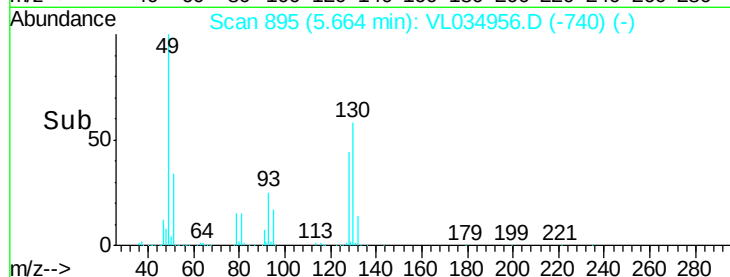
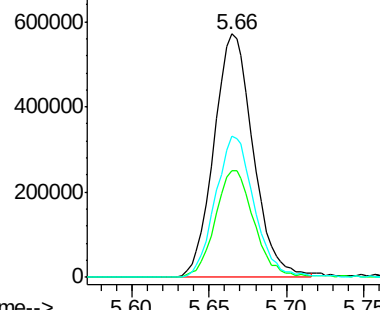
5/7/2020 2:32:18 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.290 ppbv

RT: 3.01 min Scan# 71

Delta R.T. 0.00 min

Lab File: VL034956.D

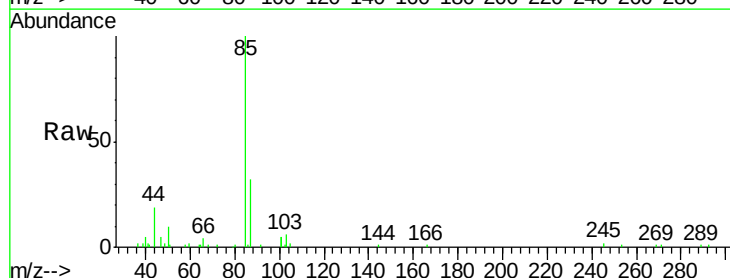
Acq: 7 May 2020 5:26

Tgt Ion: 85 Resp: 41447

Ion Ratio Lower Upper

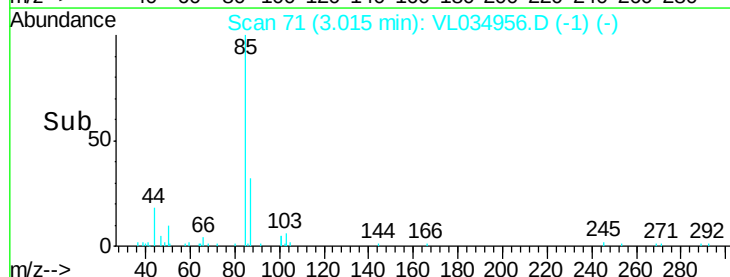
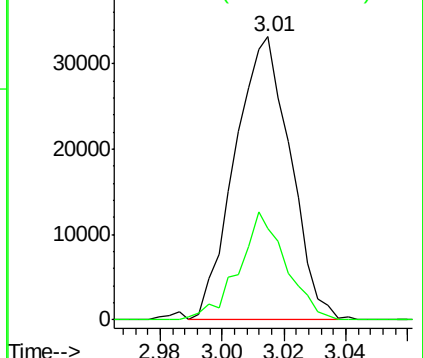
85 100

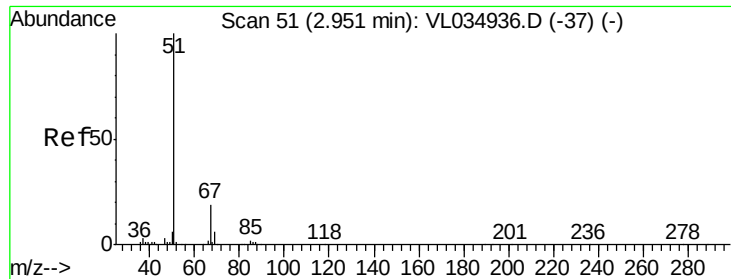
87 32.1 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

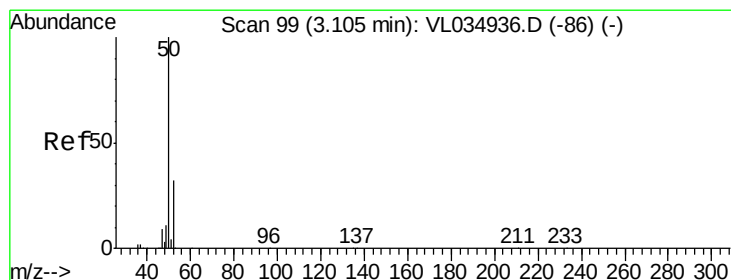
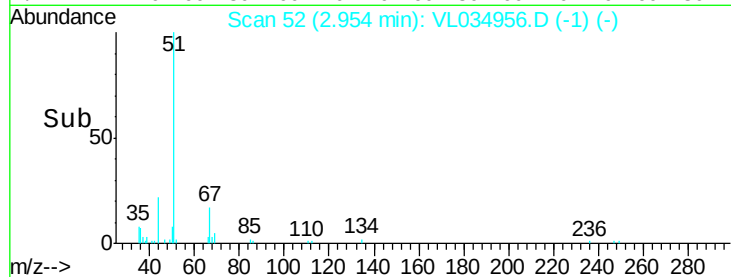
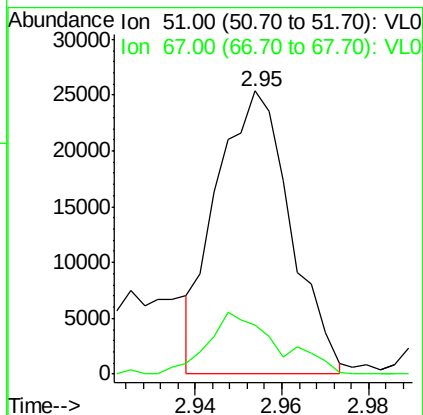
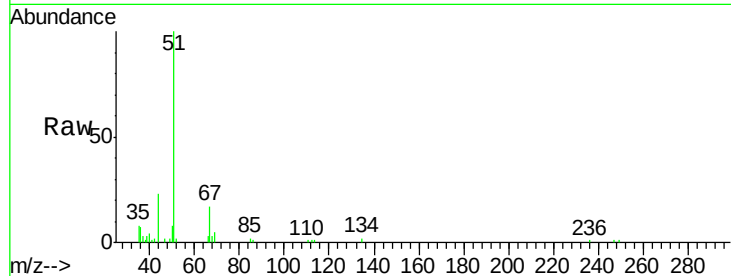
Chlorodifluoromethane
 Concen: 0.261 ppbv
 RT: 2.95 min Scan# 52
 Delta R.T. 0.00 min
 Lab File: VL034956.D
 Acq: 7 May 2020 5:26

Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1

Tot Ion	Ratio	Lower	Upper
51	100		
67	21.0	15.0	22.6

Manual Integrations
 APPROVED

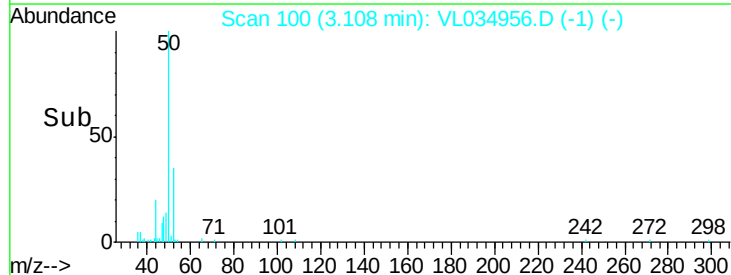
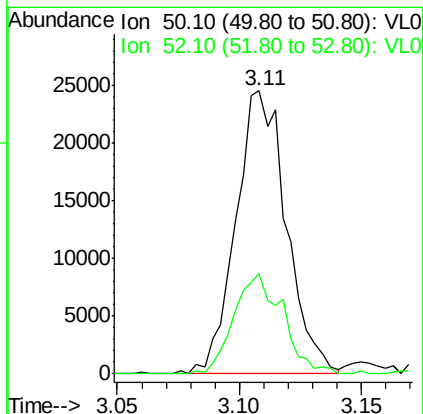
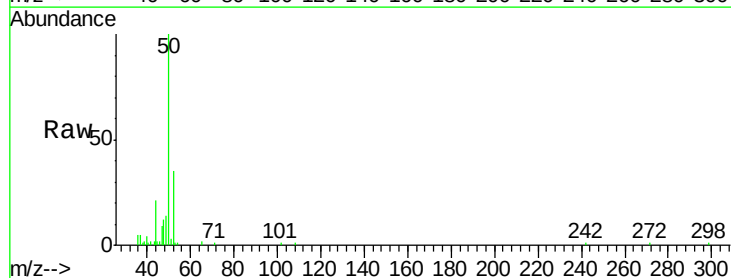
MMDadoda
 5/7/2020 2:32:18 PM

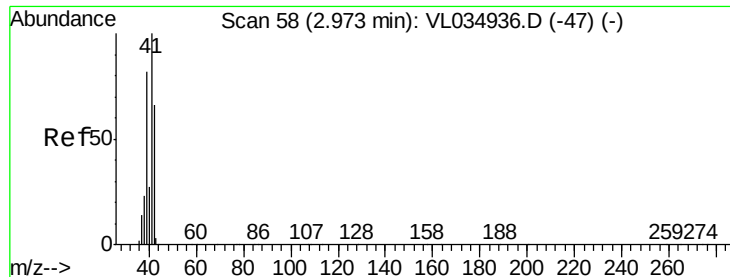


#4

Chloromethane
 Concen: 0.533 ppbv
 RT: 3.11 min Scan# 100
 Delta R.T. 0.00 min
 Lab File: VL034956.D
 Acq: 7 May 2020 5:26

Tgt Ion	Ratio	Lower	Upper
50	100		
52	35.3	25.4	38.2





#9

Propene

Concen: 0.397 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.01 min

Lab File: VL034956.D

Acq: 7 May 2020 5:26

Instrument :

MSVOA_L

ClientSampled :

QA-1

Tot Ion: 41 Resp: 19844

Ion Ratio Lower Upper

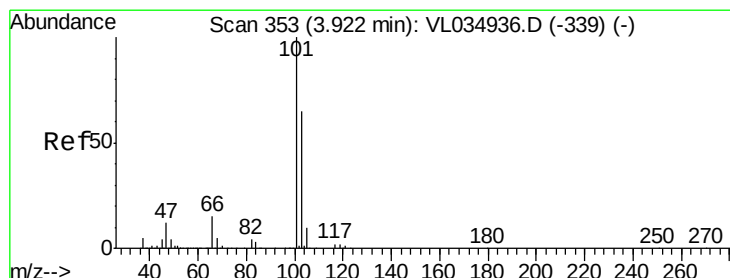
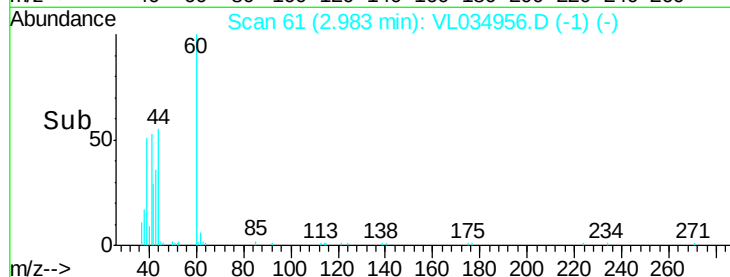
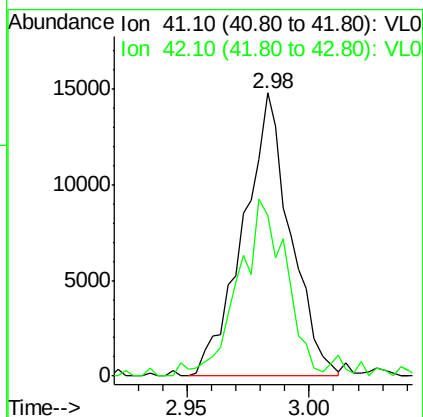
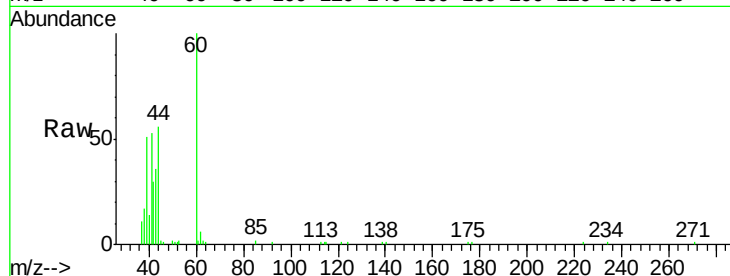
41 100

42 67.8 54.5 81.7

Manual Integrations
APPROVED

MMDadoda

5/7/2020 2:32:18 PM



#11

Trichlorofluoromethane

Concen: 0.246 ppbv

RT: 3.92 min Scan# 354

Delta R.T. 0.00 min

Lab File: VL034956.D

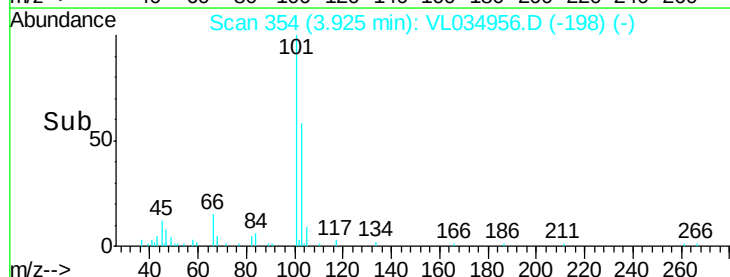
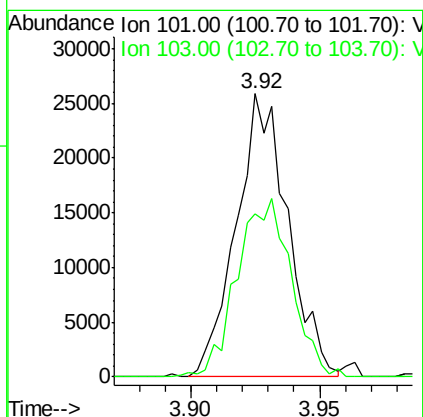
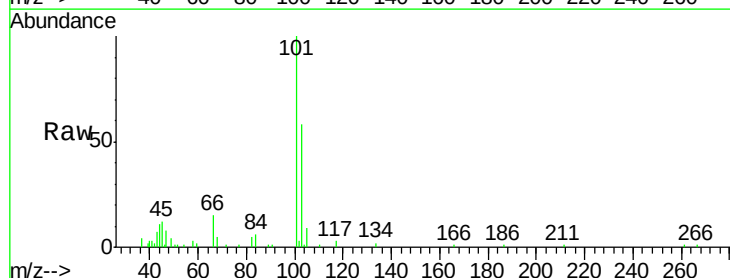
Acq: 7 May 2020 5:26

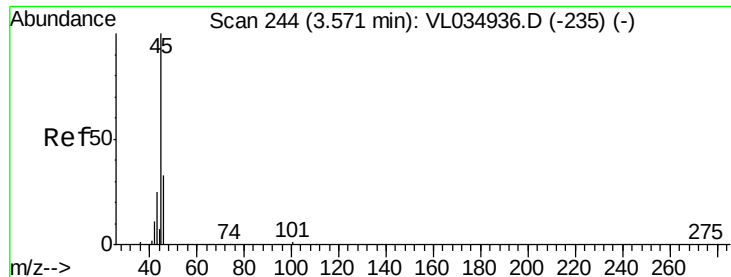
Tgt Ion: 101 Resp: 36298

Ion Ratio Lower Upper

101 100

103 56.1 51.9 77.9





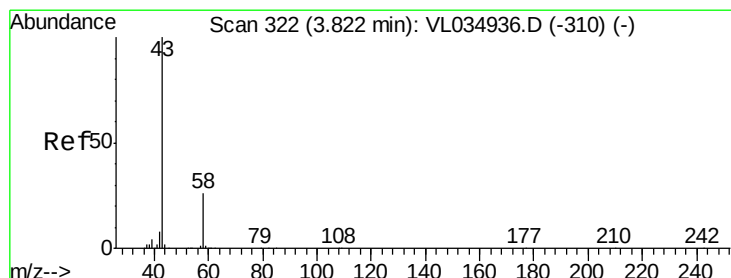
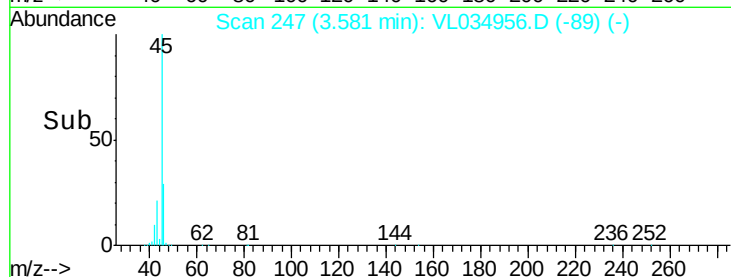
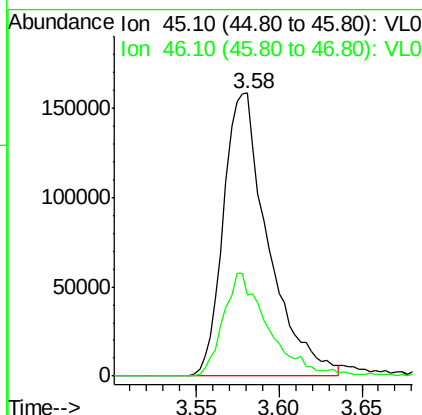
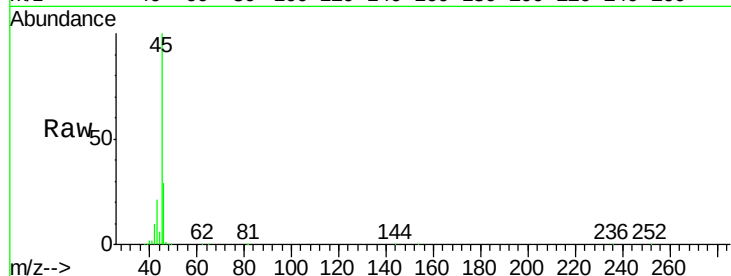
#13
Ethanol
Concen: 18.082 ppbv
RT: 3.58 min Scan# 247
Delta R.T. 0.01 min
Lab File: VL034956.D
Acq: 7 May 2020 5:26

Instrument :
MSVOA_L
ClientSampleId :
QA-1

Tot Ion	45	Resp	298136
Ion Ratio	100	Lower	Upper
46	37.0	14.3	57.3

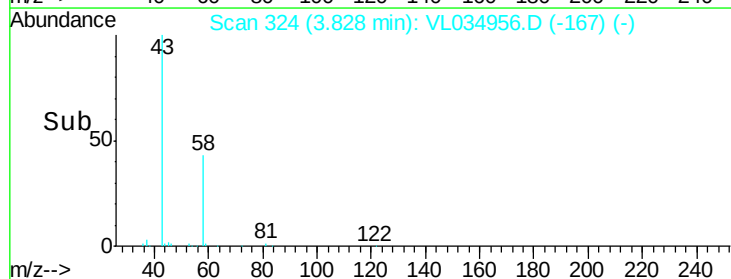
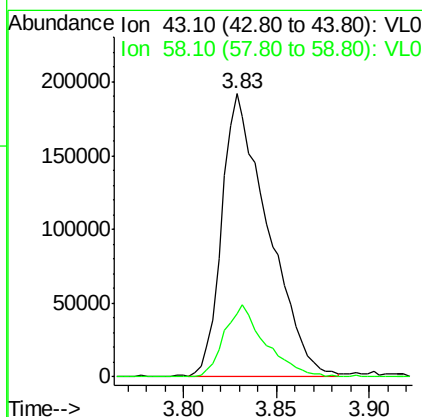
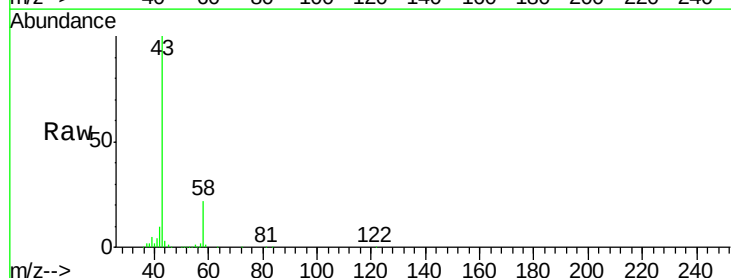
Manual Integrations
APPROVED

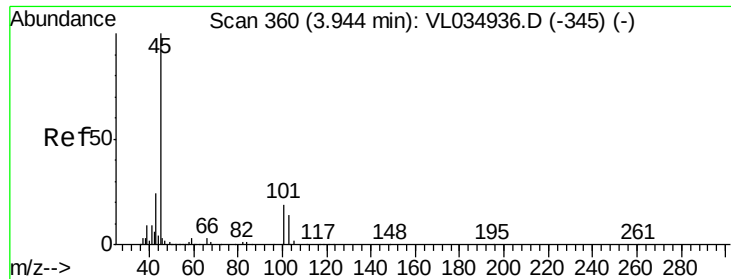
MMDadoda
5/7/2020 2:32:18 PM



#15
Acetone
Concen: 2.494 ppbv
RT: 3.83 min Scan# 324
Delta R.T. 0.01 min
Lab File: VL034956.D
Acq: 7 May 2020 5:26

Tgt Ion	43	Resp	332608
Ion Ratio	100	Lower	Upper
58	22.9	21.7	32.5





#19

Isopropyl Alcohol

Concen: 1.378 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.01 min

Lab File: VL034956.D

Acq: 7 May 2020 5:26

Instrument :

MSVOA_L

ClientSampleId :

QA-1

Tot Ion: 45 Resp: 122541

Ion Ratio Lower Upper

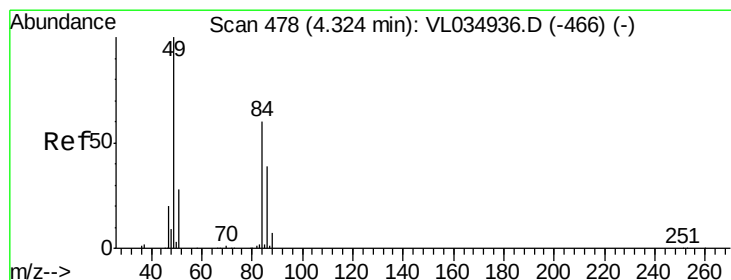
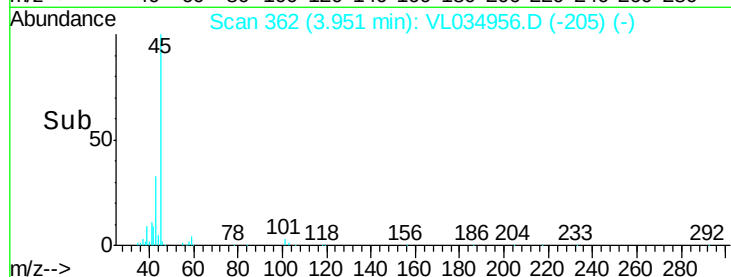
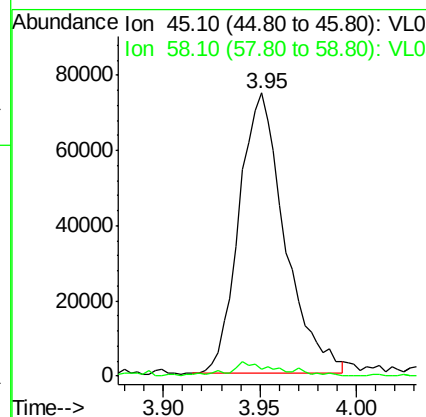
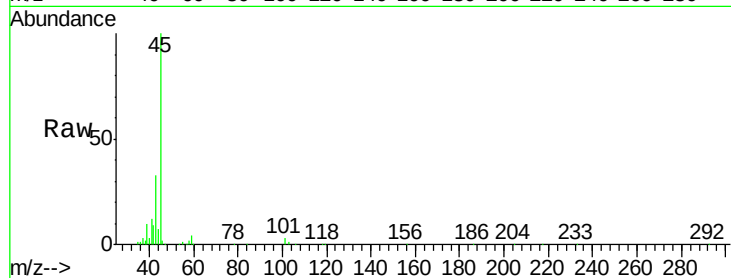
45 100

58 5.7 1.7 2.5#

Manual Integrations
APPROVED

MMDadoda

5/7/2020 2:32:18 PM



#20

Methylene Chloride

Concen: 1.078 ppbv

RT: 4.33 min Scan# 479

Delta R.T. 0.00 min

Lab File: VL034956.D

Acq: 7 May 2020 5:26

Tgt Ion: 84 Resp: 47581

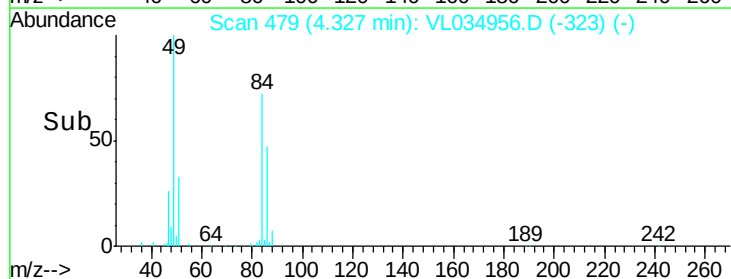
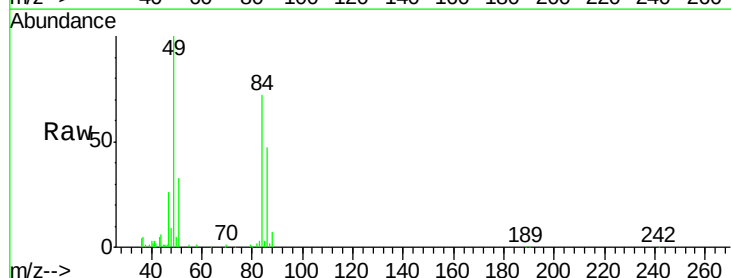
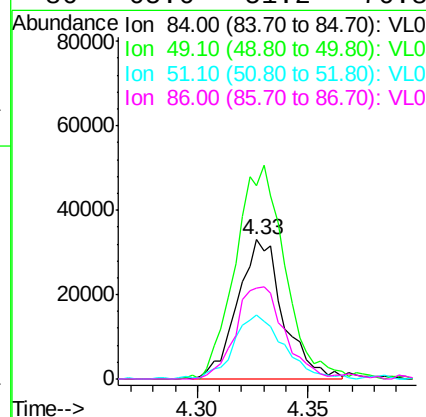
Ion Ratio Lower Upper

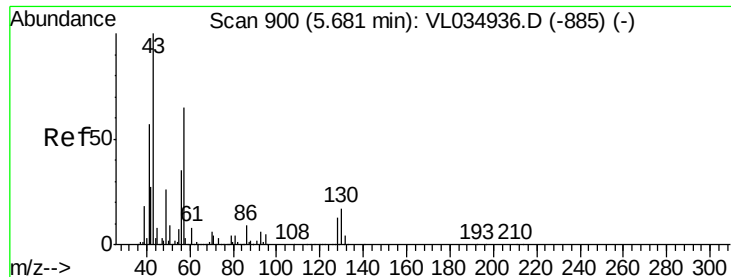
84 100

49 135.3 132.5 198.7

51 45.3 38.4 57.6

86 65.6 51.2 76.8





#26

Hexane

Concen: 0.343 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.00 min

Lab File: VL034956.D

Acq: 7 May 2020 5:26

Instrument :

MSVOA_L

ClientSampled :

QA-1

Tot Ion: 57 Resp: 33262

Ion Ratio Lower Upper

57 100

41 109.6 72.7 109.1#

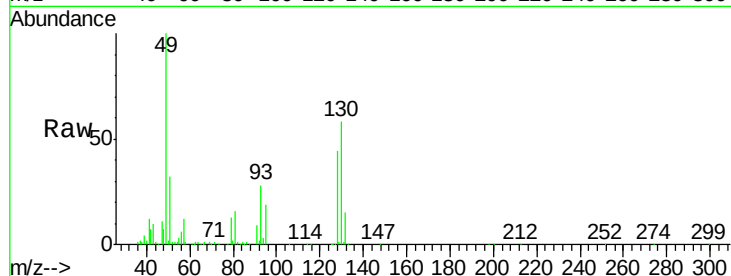
43 84.6 182.1 273.1#

56 62.7 42.2 63.2

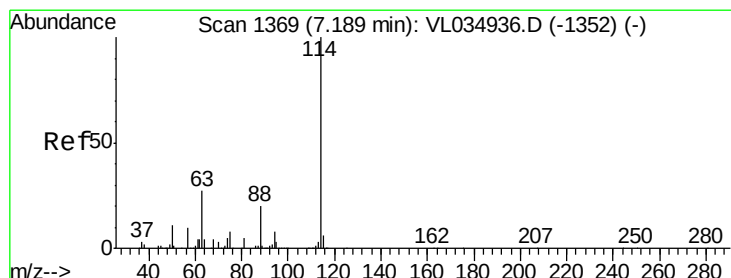
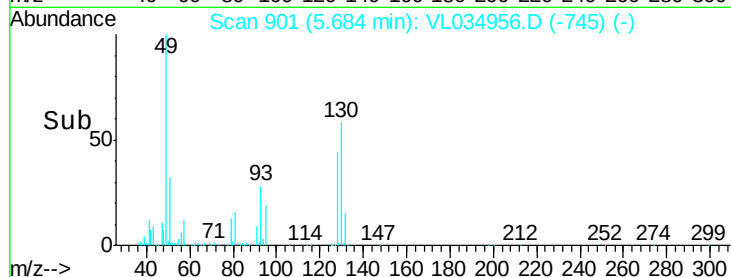
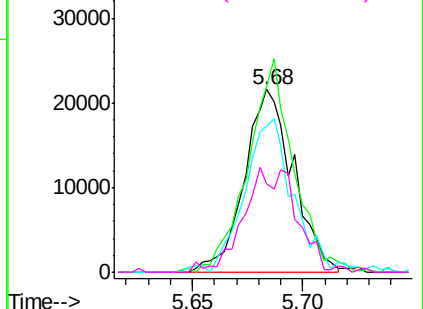
Manual Integrations
APPROVED

MMDadoda

5/7/2020 2:32:18 PM



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



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. -0.00 min

Lab File: VL034956.D

Acq: 7 May 2020 5:26

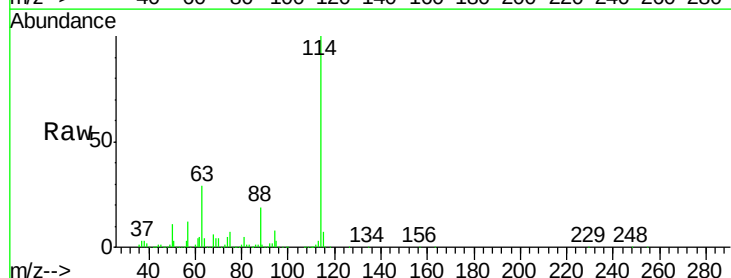
Tgt Ion:114 Resp: 2338844

Ion Ratio Lower Upper

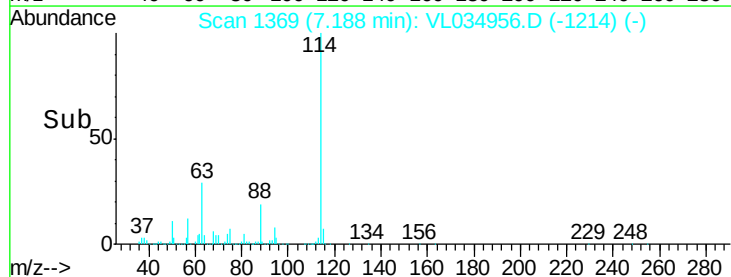
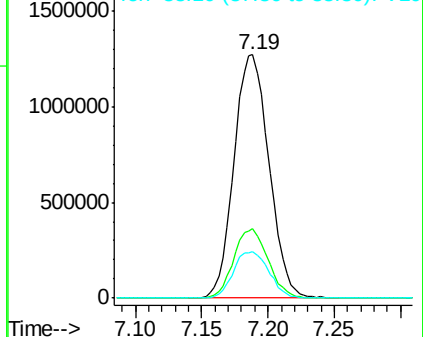
114 100

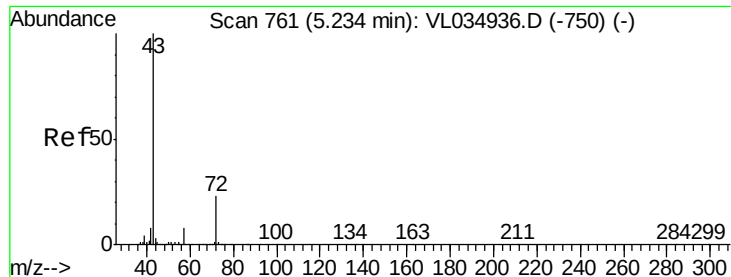
63 28.0 22.2 33.4

88 19.4 15.5 23.3



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





#34

2-Butanone

Concen: 0.143 ppbv

RT: 5.24 min Scan# 764

Delta R.T. 0.01 min

Lab File: VL034956.D

Acq: 7 May 2020 5:26

Instrument :

MSVOA_L

ClientSampleId :

QA-1

Tot Ion: 43 Resp: 20780

Ion Ratio Lower Upper

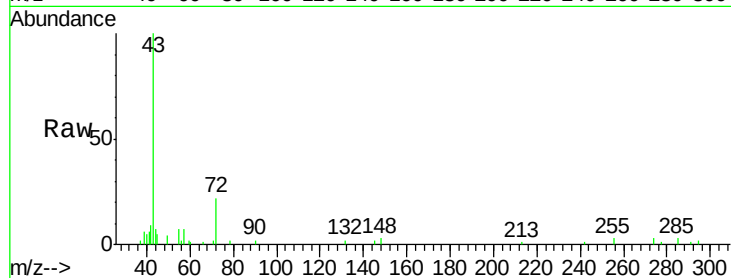
43 100

72 22.8 18.0 27.0

Manual Integrations
APPROVED

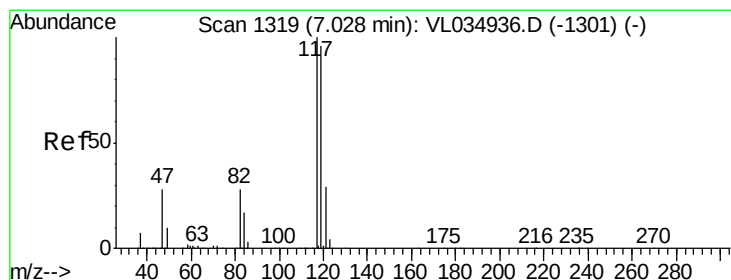
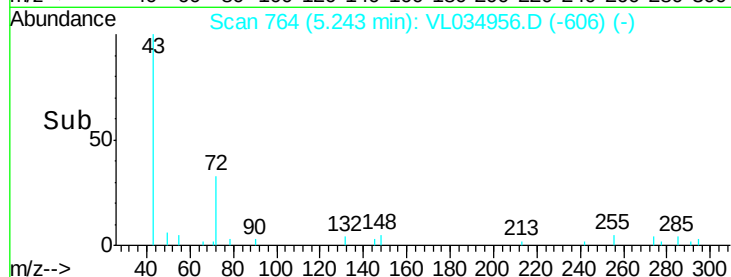
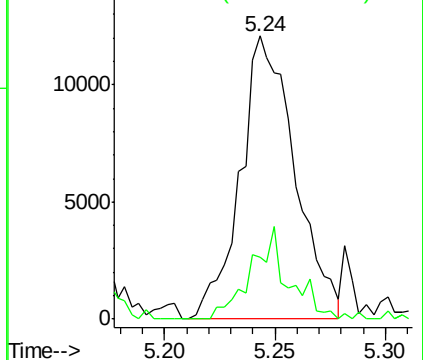
MMDadoda

5/7/2020 2:32:18 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.075 ppbv m

RT: 7.03 min Scan# 1320

Delta R.T. 0.00 min

Lab File: VL034956.D

Acq: 7 May 2020 5:26

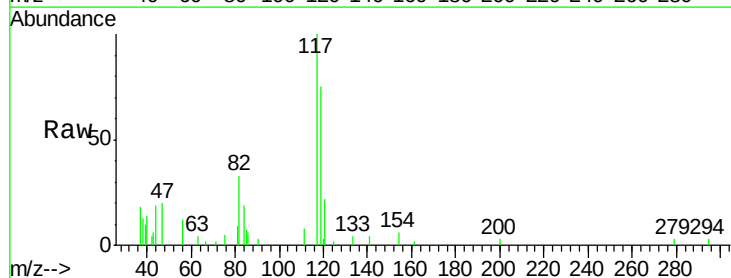
Tgt Ion: 117 Resp: 11031

Ion Ratio Lower Upper

117 100

119 74.7 77.0 115.6#

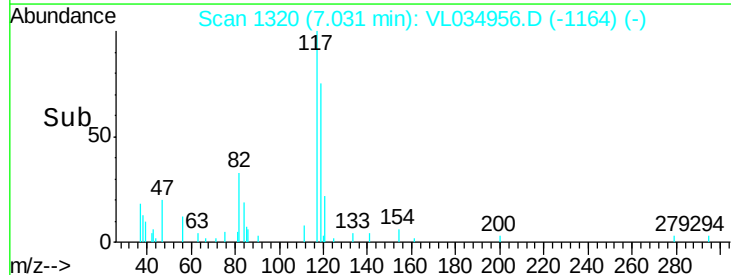
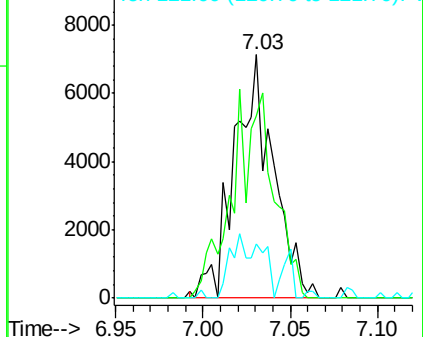
121 22.1 23.0 34.6#

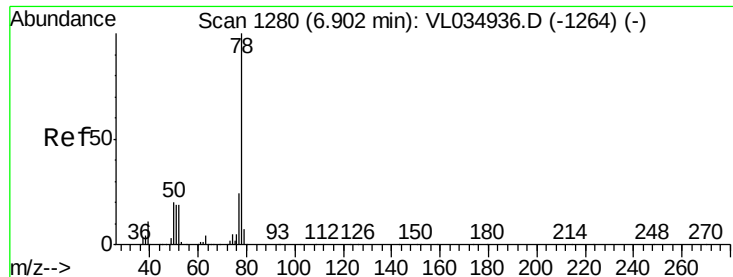


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 0.159 ppbv

RT: 6.90 min Scan# 1280

Delta R.T. -0.00 min

Lab File: VL034956.D

Acq: 7 May 2020 5:26

Instrument :

MSVOA_L

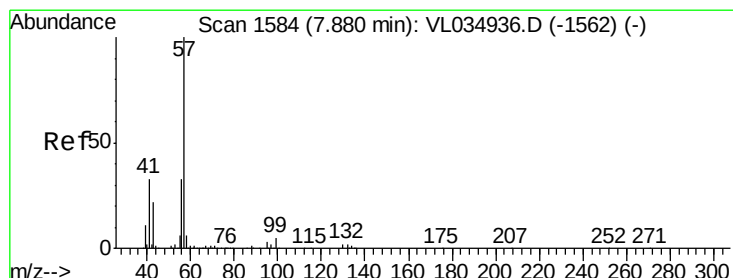
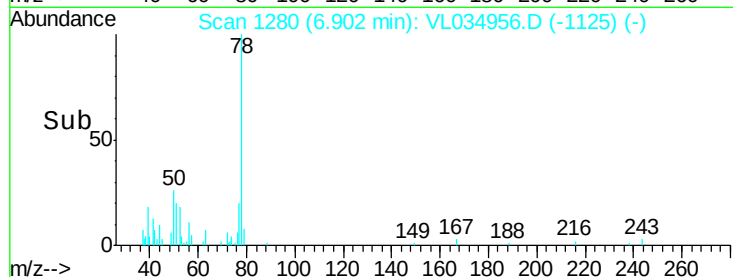
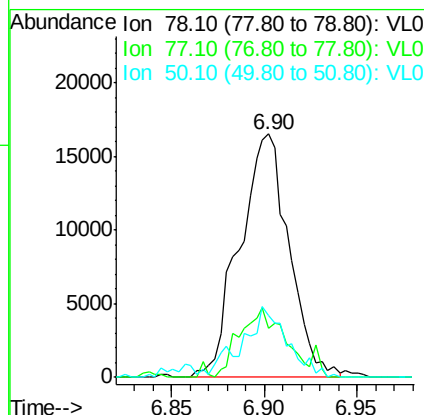
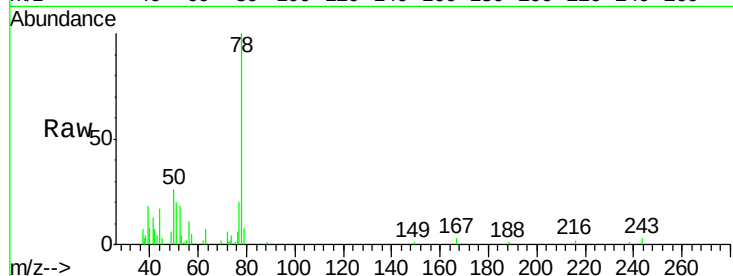
ClientSampleId :

QA-1

Tot Ion:	78	Resp:	30695
Ion Ratio	Lower	Upper	
78	100		
77	20.3	19.0	28.6
50	25.6	15.8	23.8#

Manual Integrations
APPROVED

MMDadoda
5/7/2020 2:32:18 PM



#44

2,2,4-Trimethylpentane

Concen: 0.098 ppbv m

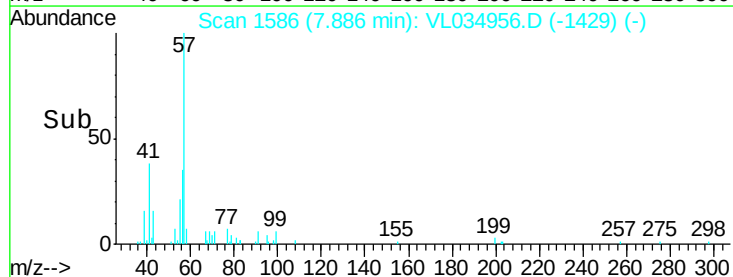
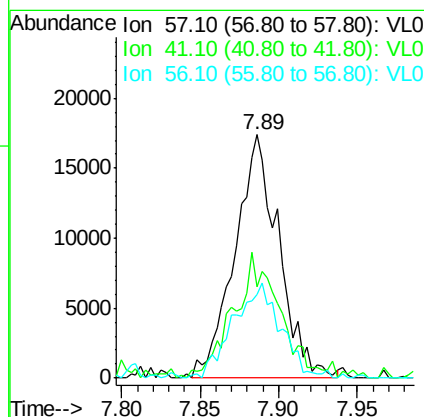
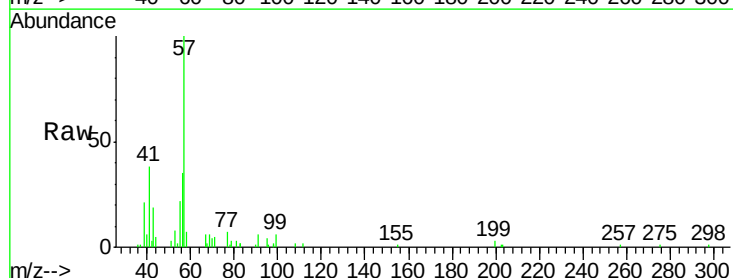
RT: 7.89 min Scan# 1586

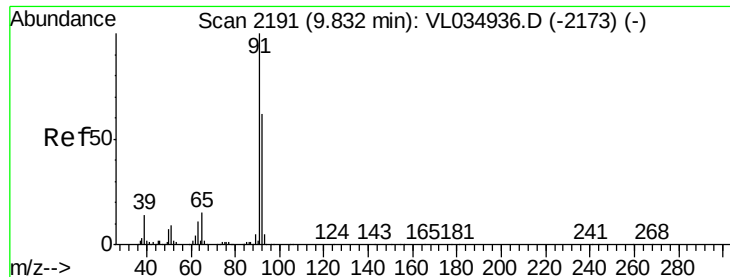
Delta R.T. 0.01 min

Lab File: VL034956.D

Acq: 7 May 2020 5:26

Tgt Ion:	57	Resp:	33713
Ion Ratio	Lower	Upper	
57	100		
41	56.2	26.4	39.6#
56	42.2	25.5	38.3#





#53

Toluene

Concen: 0.225 ppbv m

RT: 9.83 min Scan# 2192

Delta R.T. 0.00 min

Lab File: VL034956.D

Acq: 7 May 2020 5:26

Instrument :

MSVOA_L

ClientSampleId :

QA-1

Tot Ion: 91 Resp: 46036

Ion Ratio Lower Upper

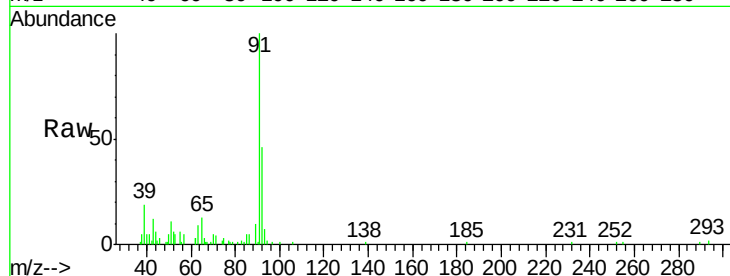
91 100

92 0.0 48.6 73.0#

Manual Integrations
APPROVED

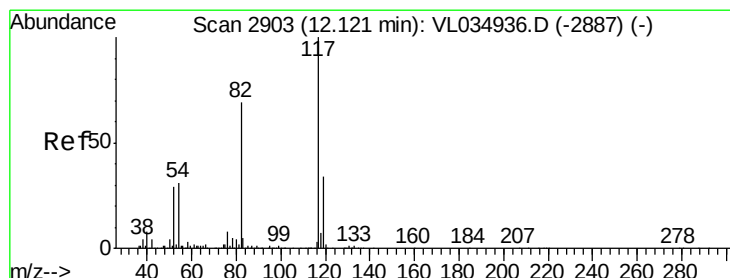
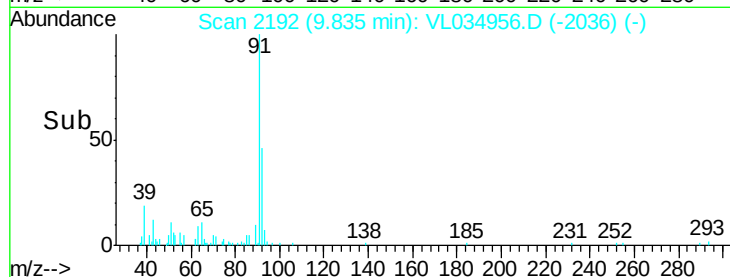
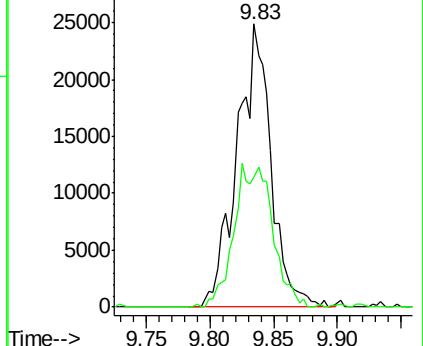
MMDadoda

5/7/2020 2:32:18 PM



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: 12.12 min Scan# 2904

Delta R.T. 0.00 min

Lab File: VL034956.D

Acq: 7 May 2020 5:26

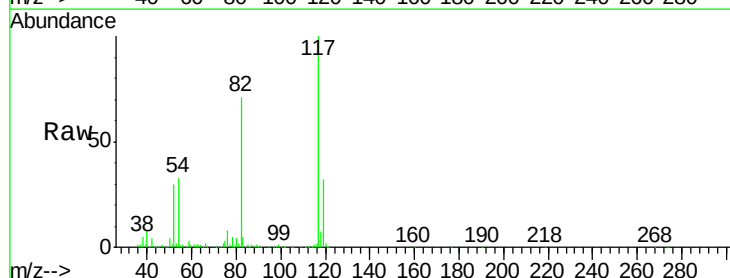
Tgt Ion: 117 Resp: 2142729

Ion Ratio Lower Upper

117 100

82 70.2 53.1 79.7

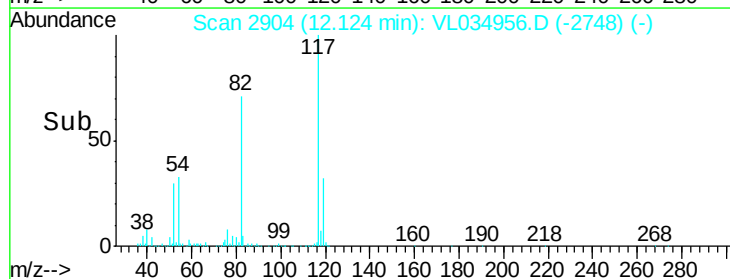
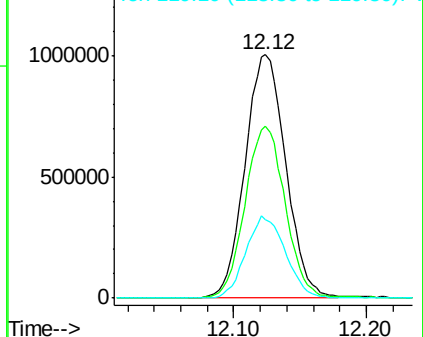
119 33.0 26.7 40.1

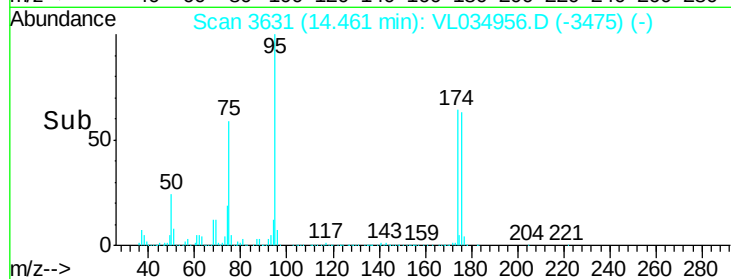
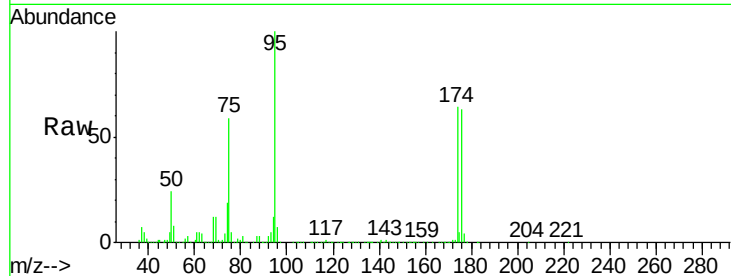
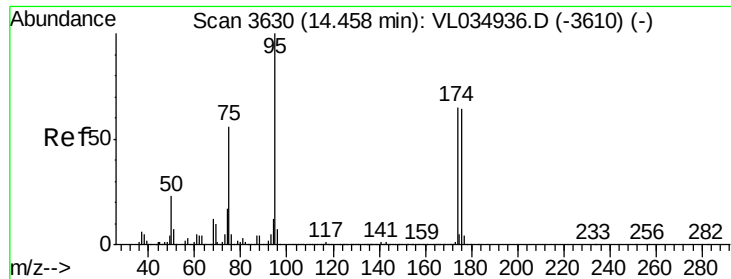


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.227 ppbv

RT: 14.46 min Scan# 3631

Delta R.T. 0.00 min

Lab File: VL034956.D

Acq: 7 May 2020 5:26

Tot Ion: 95 Resp: 1773725

Ion Ratio Lower Upper

95 100

174 64.3 51.5 77.3

175 4.9 3.8 5.8

Instrument :

MSVOA_L

ClientSampleId :

OA-1

Manual Integrations
APPROVED

MMDadoda
5/7/2020 2:32:18 PM

