

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110520\
 Data File : VL035869.D
 Acq On : 5 Nov 2020 21:02
 Operator : SY/AP
 Sample : L4220-05
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
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 11/9/2020 1:38:46 PM

Quant Time: Nov 08 14:17:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 0
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1016207	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	3833877	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	3445391	10.00	ppbv	-0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2440531	9.97	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	44554	0.233	ppbv	96
3) Chlorodifluoromethane	2.96	51	61716	0.507	ppbv #	86
4) Chloromethane	3.12	50	30609	0.518	ppbv	100
9) Propene	3.00	41	32145m	0.722	ppbv	
11) Trichlorofluoromethane	3.92	101	60265	0.251	ppbv	91
13) Ethanol	3.59	45	109329	11.314	ppbv	97
15) Acetone	3.83	43	330147	3.039	ppbv	98
19) Isopropyl Alcohol	3.96	45	30724m	0.460	ppbv	
20) Methylene Chloride	4.32	84	645580	8.441	ppbv	99
26) Hexane	5.66	57	328607	2.784	ppbv #	47
34) 2-Butanone	5.23	43	21284m	0.171	ppbv	
35) Carbon Tetrachloride	6.99	117	13676	0.067	ppbv #	86
36) Benzene	6.86	78	52068	0.183	ppbv	95
53) Toluene	9.78	91	113023	0.329	ppbv	98

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

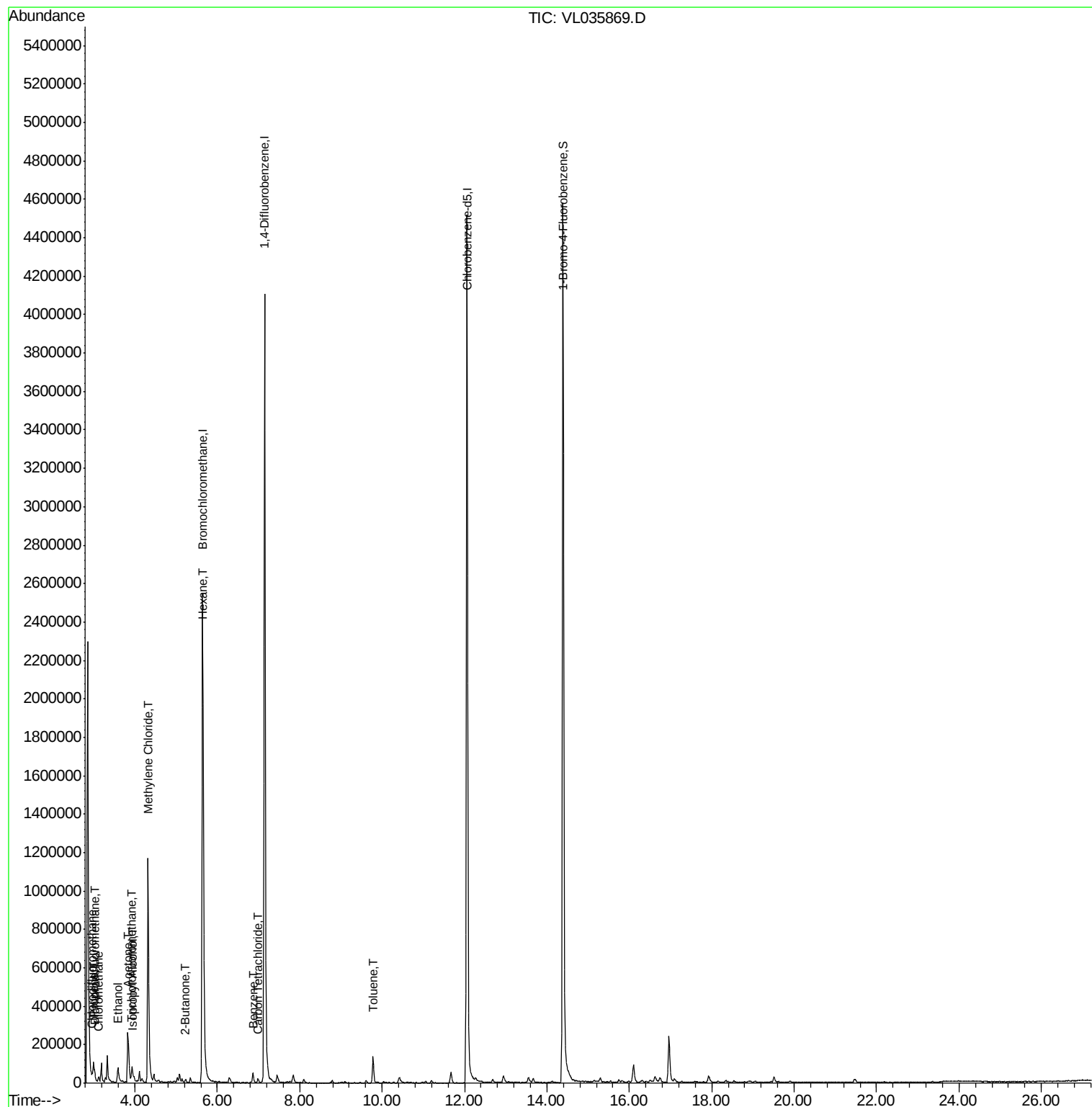
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL110520\
Data File : VL035869.D
Acq On : 5 Nov 2020 21:02
Operator : SY/AP
Sample : L4220-05
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

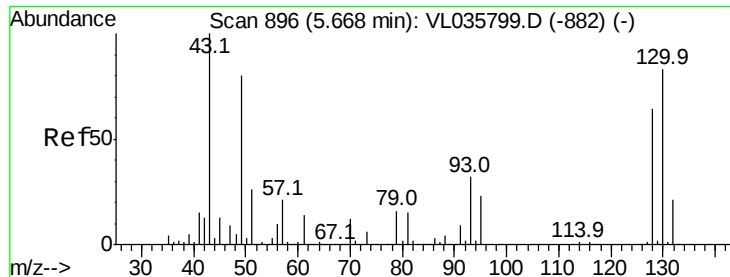
Instrument :
MSVOA_L
ClientSampleId :
OA1

Manual Integrations
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Quant Time: Nov 08 14:17:38 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 887

Delta R.T. -0.03 min

Lab File: VL035869.D

Acq: 5 Nov 2020 21:02

Instrument :

MSVOA_L

ClientSampled :

QA1

Tot Ion: 49 Resp: 1016207

Ion Ratio Lower Upper

49 100

128 81.1 41.5 124.6

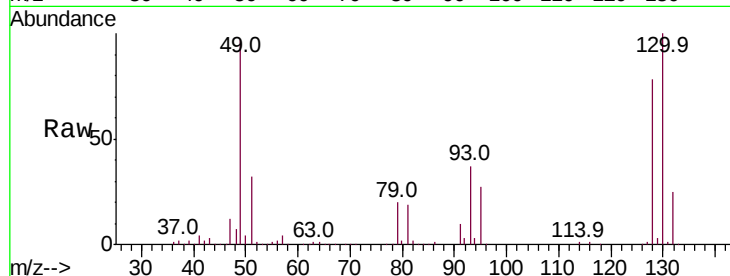
130 104.2 53.7 161.1

Manual Integrations

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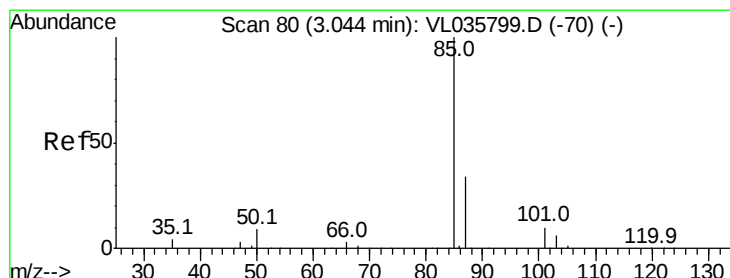
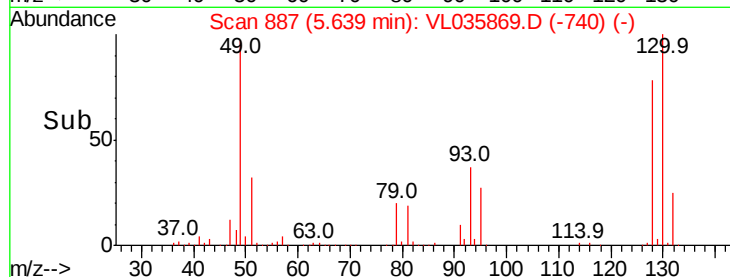
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

5.64

Time-->



#2

Dichlorodifluoromethane

Concen: 0.233 ppbv

RT: 3.02 min Scan# 74

Delta R.T. -0.02 min

Lab File: VL035869.D

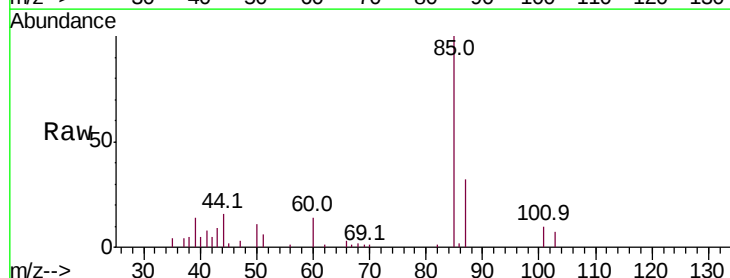
Acq: 5 Nov 2020 21:02

Tgt Ion: 85 Resp: 44554

Ion Ratio Lower Upper

85 100

87 31.6 27.1 40.7

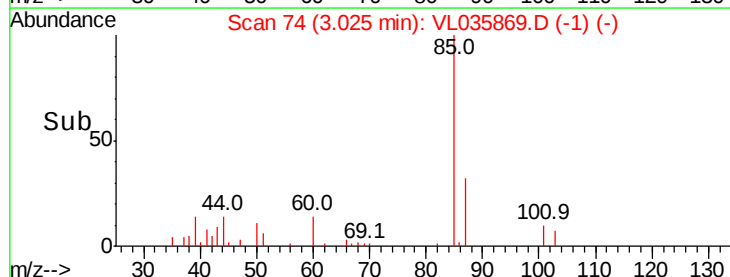


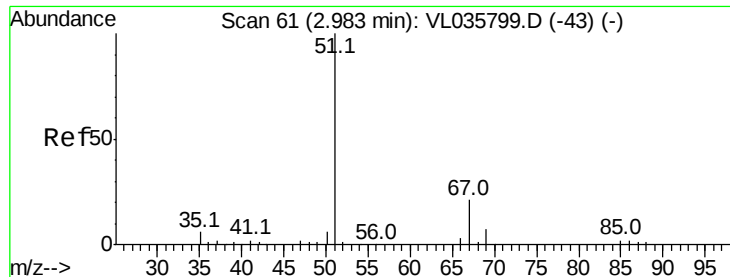
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.02

Time-->





#3

Chlorodifluoromethane

Concen: 0.507 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.02 min

Lab File: VL035869.D

Acq: 5 Nov 2020 21:02

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tot Ion: 51 Resp: 61716

Ion Ratio Lower Upper

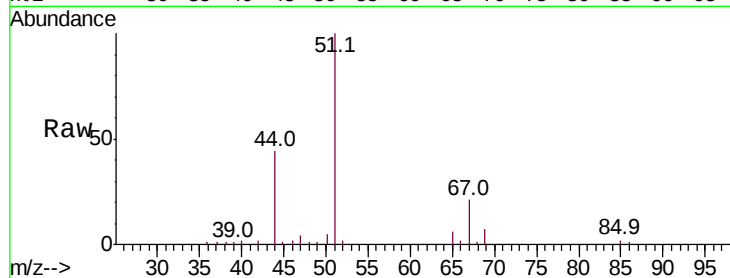
51 100

67 14.8 17.0 25.4#

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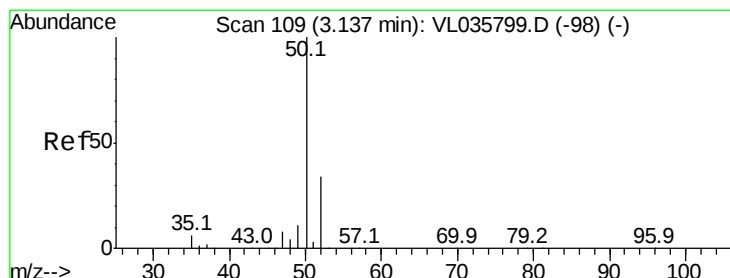
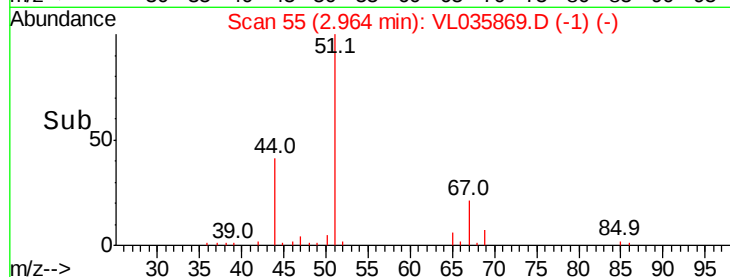
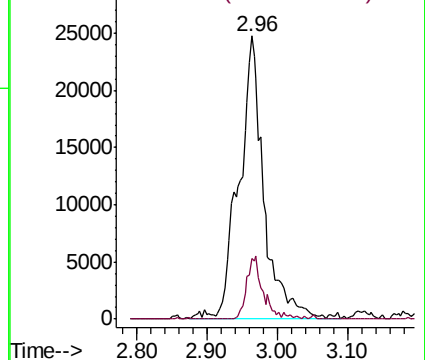
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.518 ppbv

RT: 3.12 min Scan# 103

Delta R.T. -0.02 min

Lab File: VL035869.D

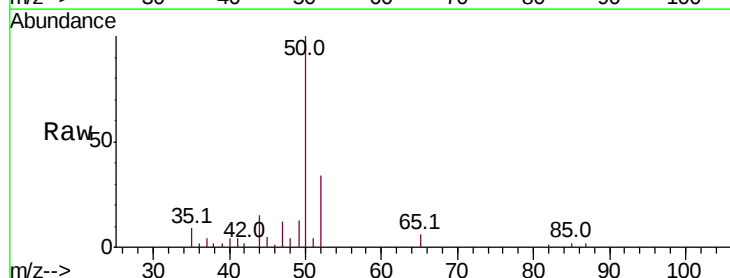
Acq: 5 Nov 2020 21:02

Tgt Ion: 50 Resp: 30609

Ion Ratio Lower Upper

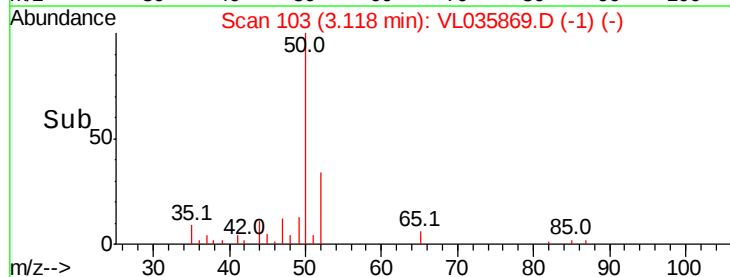
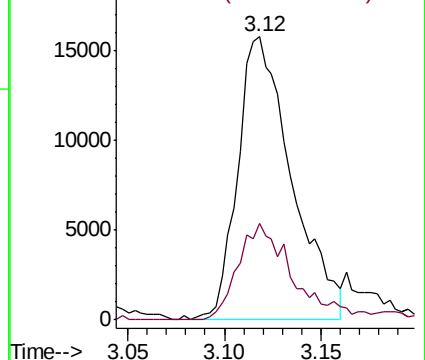
50 100

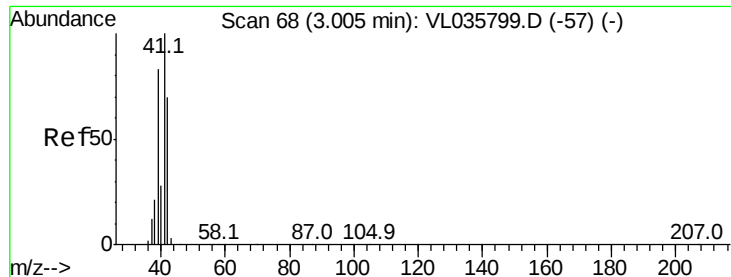
52 34.0 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.722 ppbv m

RT: 3.00 min Scan# 65

Delta R.T. -0.01 min

Lab File: VL035869.D

Acq: 5 Nov 2020 21:02

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tot Ion: 41 Resp: 32145

Ion Ratio Lower Upper

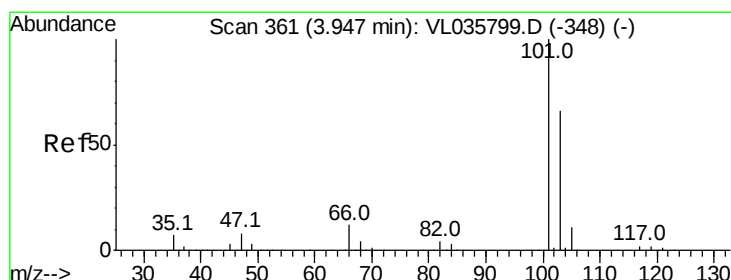
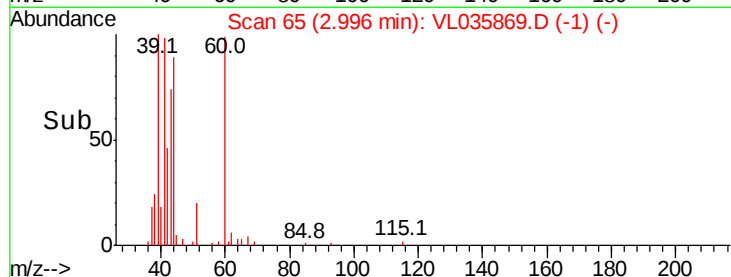
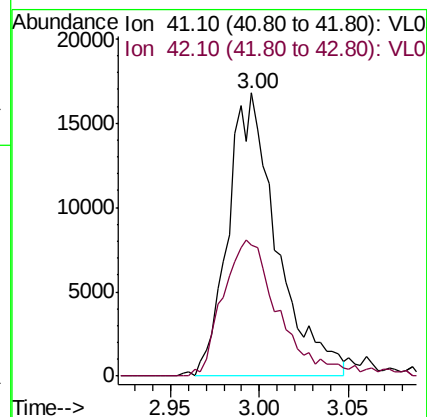
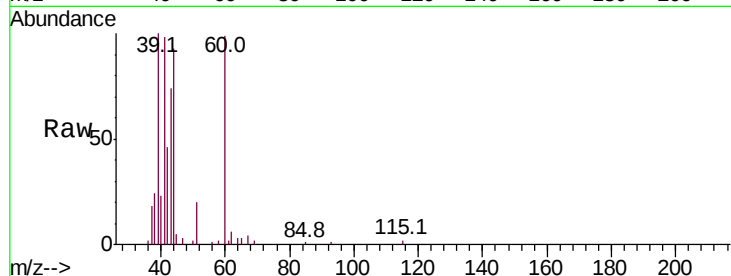
41 100

42 0.0 56.2 84.4#

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#11

Trichlorofluoromethane

Concen: 0.251 ppbv

RT: 3.92 min Scan# 354

Delta R.T. -0.02 min

Lab File: VL035869.D

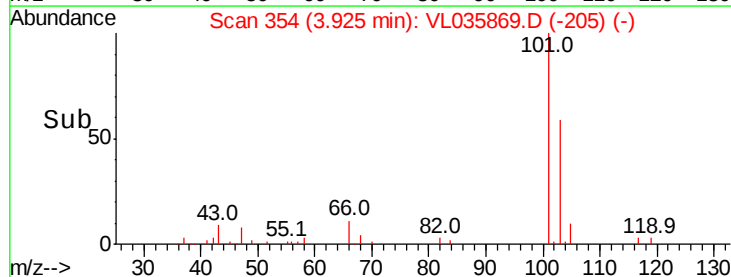
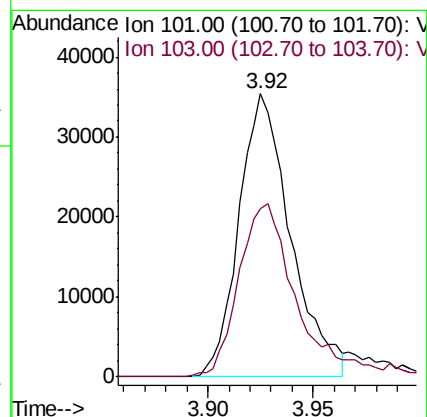
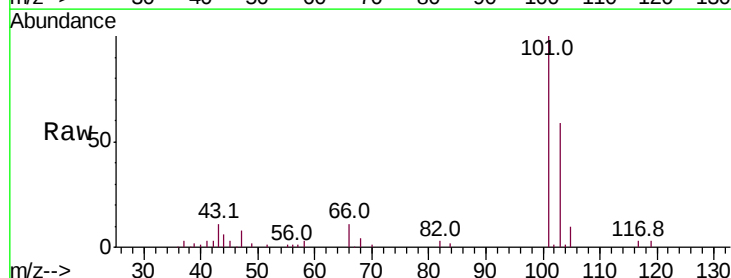
Acq: 5 Nov 2020 21:02

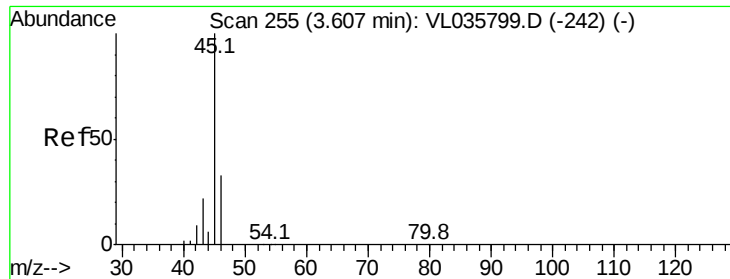
Tgt Ion: 101 Resp: 60265

Ion Ratio Lower Upper

101 100

103 58.7 53.0 79.4





#13

Ethanol

Concen: 11.314 ppbv

RT: 3.59 min Scan# 249

Delta R.T. -0.02 min

Lab File: VL035869.D

Acq: 5 Nov 2020 21:02

Instrument :

MSVOA_L

ClientSampled :

QA1

Tot Ion: 45 Resp: 109329

Ion Ratio Lower Upper

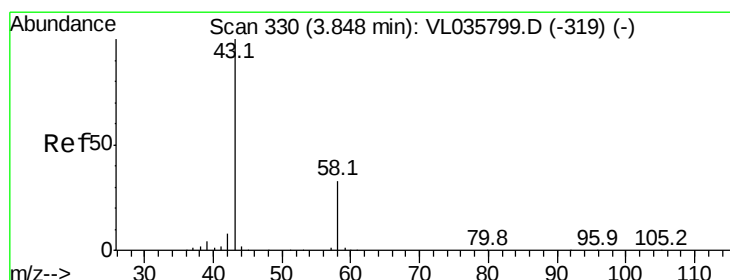
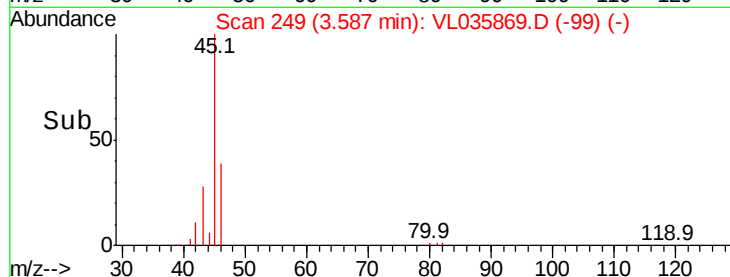
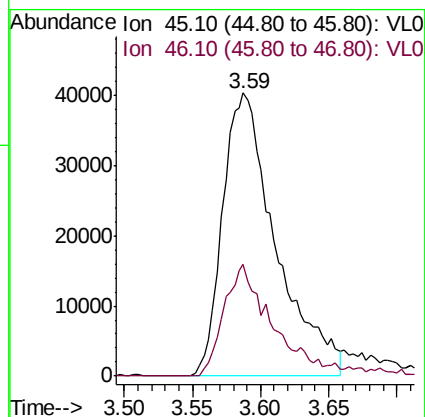
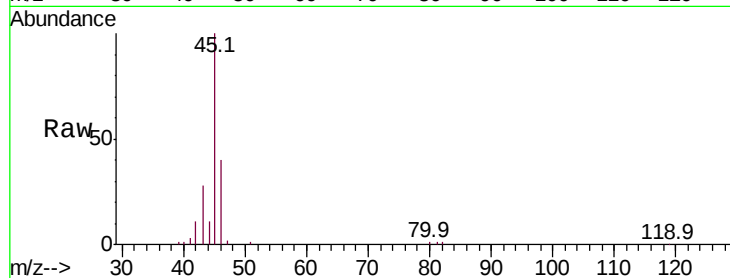
45 100

46 38.1 16.1 64.5

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#15

Acetone

Concen: 3.039 ppbv

RT: 3.83 min Scan# 324

Delta R.T. -0.02 min

Lab File: VL035869.D

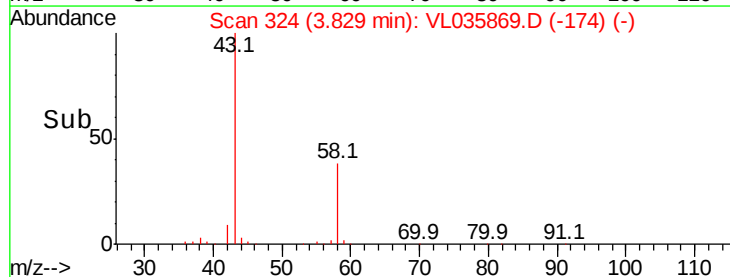
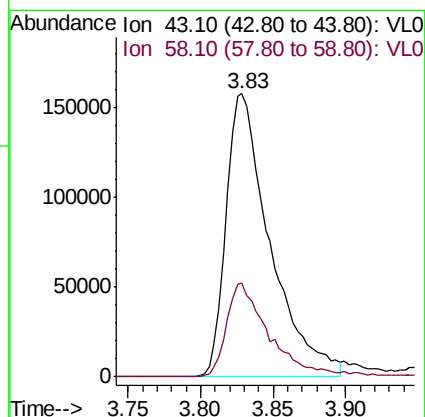
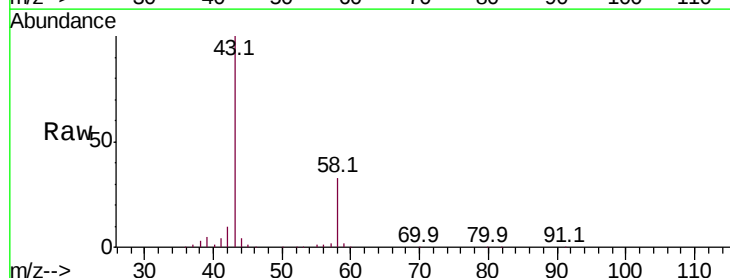
Acq: 5 Nov 2020 21:02

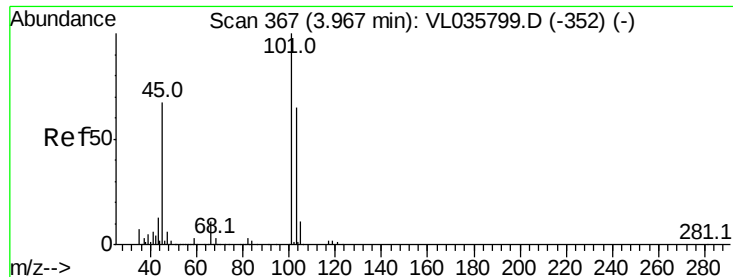
Tgt Ion: 43 Resp: 330147

Ion Ratio Lower Upper

43 100

58 33.1 27.5 41.3





#19

Isopropyl Alcohol

Concen: 0.460 ppbv m

RT: 3.96 min Scan# 364

Delta R.T. -0.01 min

Lab File: VL035869.D

Acq: 5 Nov 2020 21:02

Instrument :

MSVOA_L

ClientSampled :

QA1

Tot Ion: 45 Resp: 30724

Ion Ratio Lower Upper

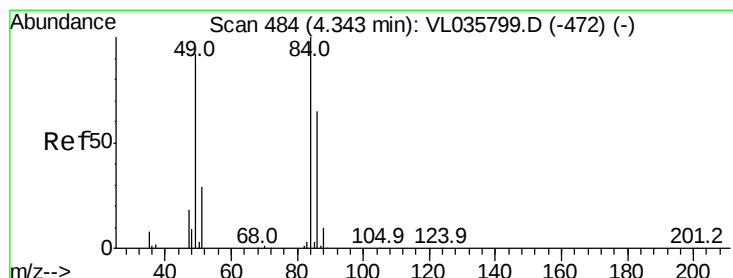
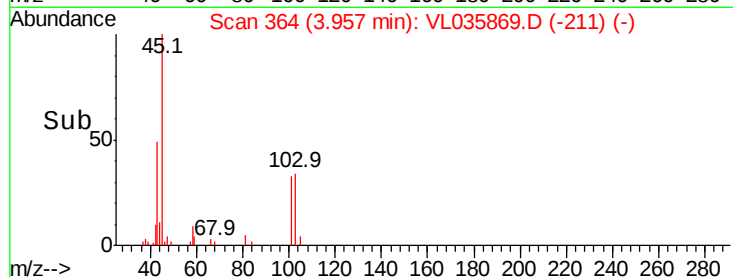
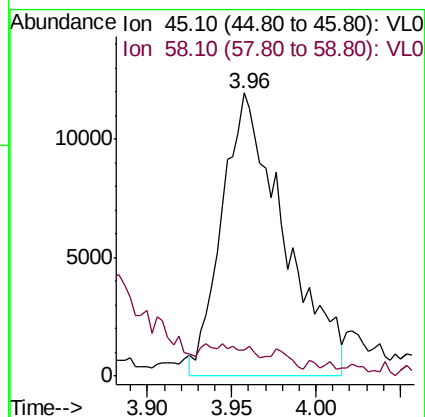
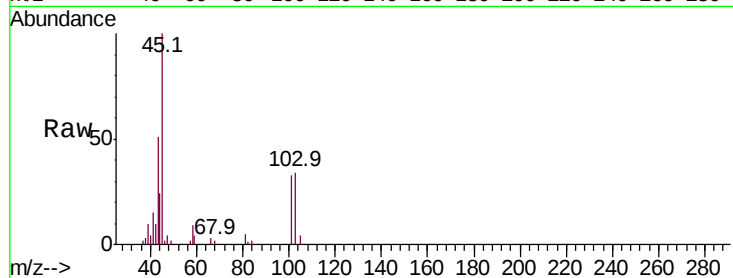
45 100

58 13.5 2.6 3.8#

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#20

Methylene Chloride

Concen: 8.441 ppbv

RT: 4.32 min Scan# 477

Delta R.T. -0.02 min

Lab File: VL035869.D

Acq: 5 Nov 2020 21:02

Tgt Ion: 84 Resp: 645580

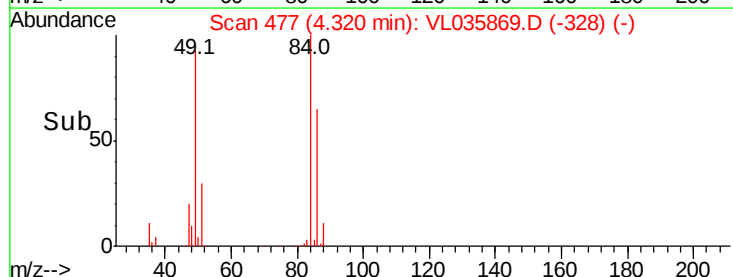
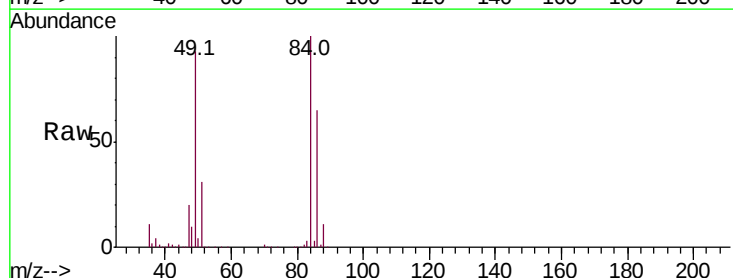
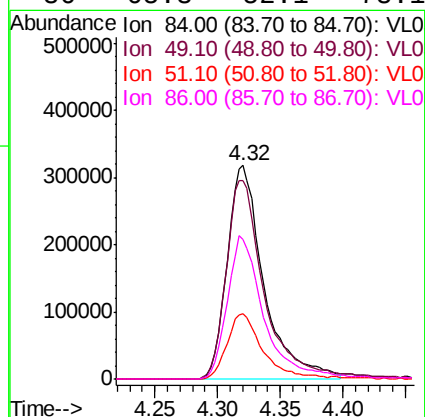
Ion Ratio Lower Upper

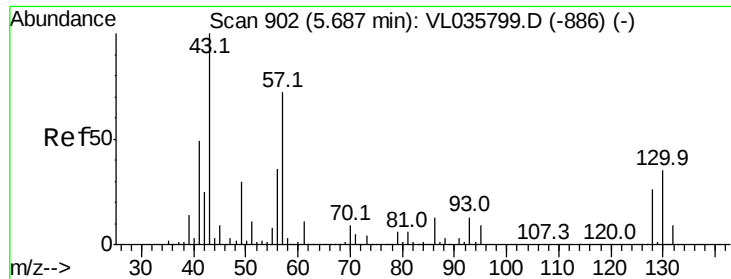
84 100

49 93.1 73.8 110.8

51 30.5 23.0 34.4

86 65.3 52.1 78.1





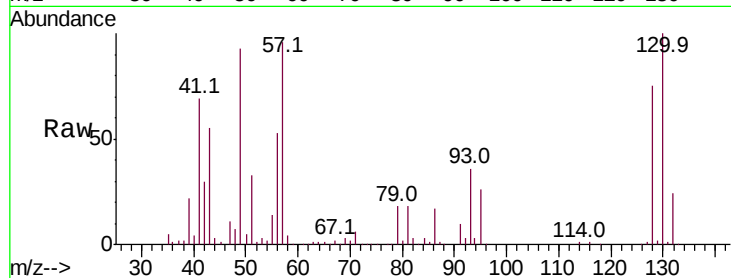
#26
Hexane
Concen: 2.784 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.03 min
Lab File: VL035869.D
Acq: 5 Nov 2020 21:02

Instrument :
MSVOA_L
ClientSampled :
QA1

Tot Ion	Ratio	Lower	Upper
57	100		
41	76.0	58.9	88.3
43	61.9	150.2	225.2#
56	56.2	42.4	63.6

Manual Integrations
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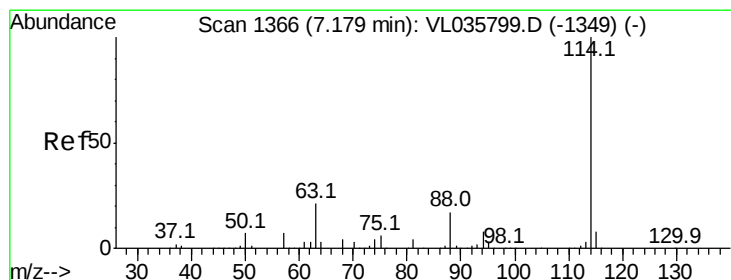
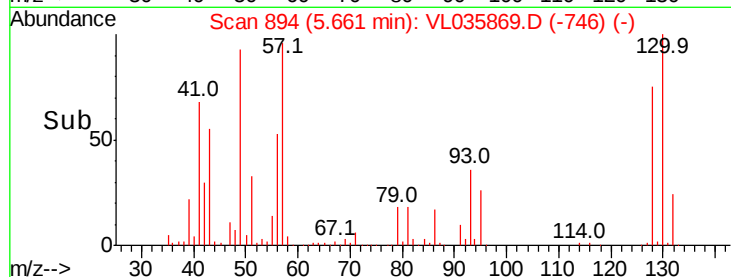
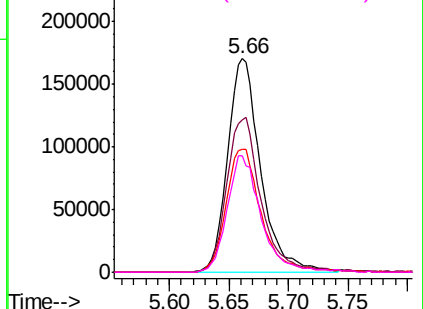
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

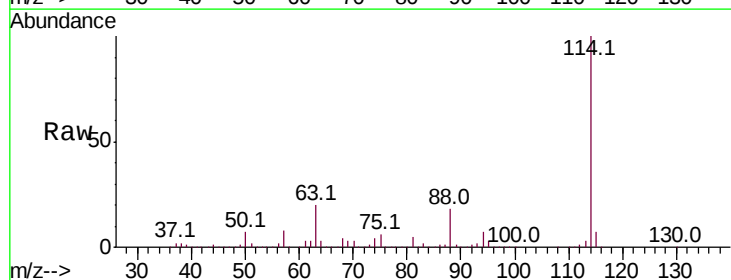
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1356
Delta R.T. -0.03 min
Lab File: VL035869.D
Acq: 5 Nov 2020 21:02

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.0	16.1	24.1
88	17.0	13.7	20.5

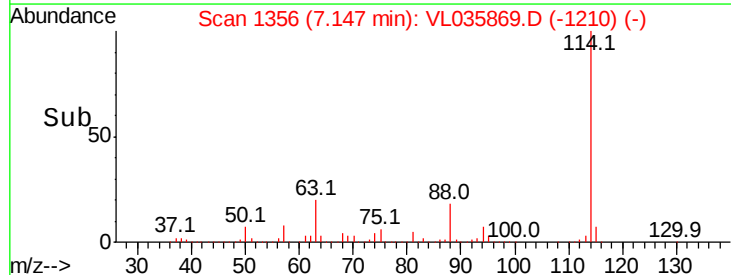
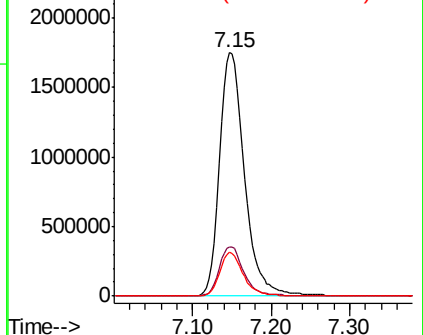


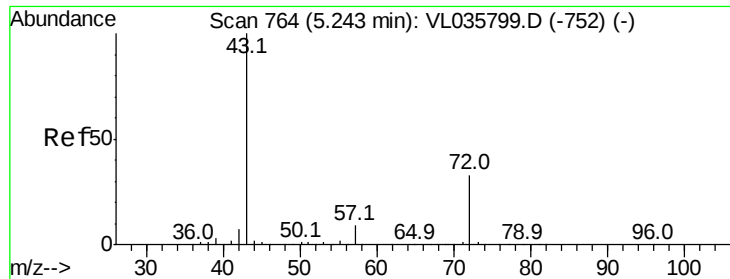
Abundance

Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





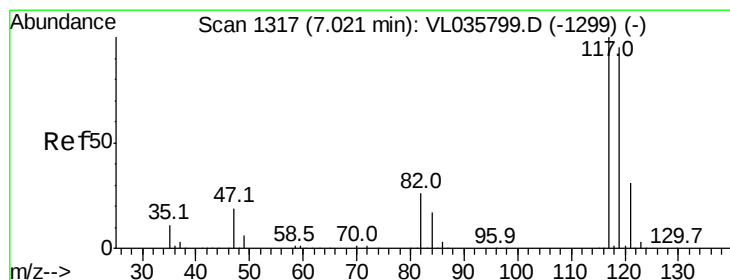
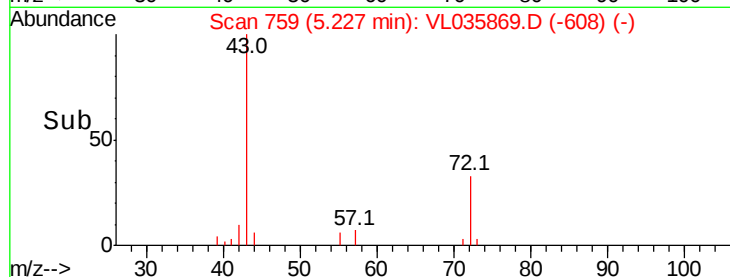
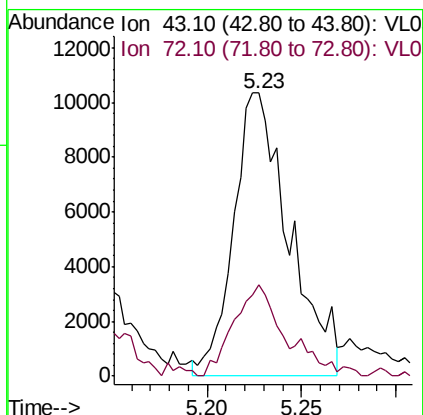
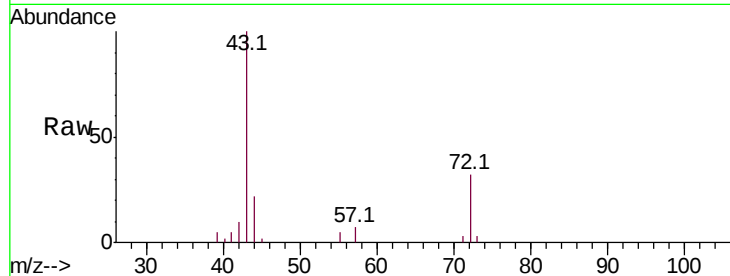
#34
2-Butanone
Concen: 0.171 ppbv m
RT: 5.23 min Scan# 759
Delta R.T. -0.02 min
Lab File: VL035869.D
Acq: 5 Nov 2020 21:02

Instrument :
MSVOA_L
ClientSampled :
QA1

Tot Ion: 43 Resp: 21284
Ion Ratio Lower Upper
43 100
72 31.7 26.5 39.7

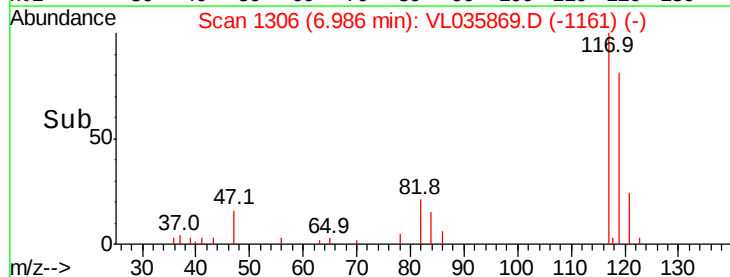
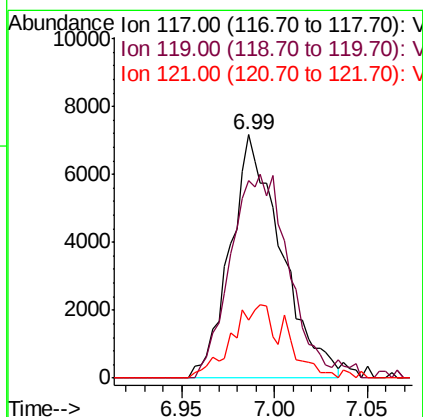
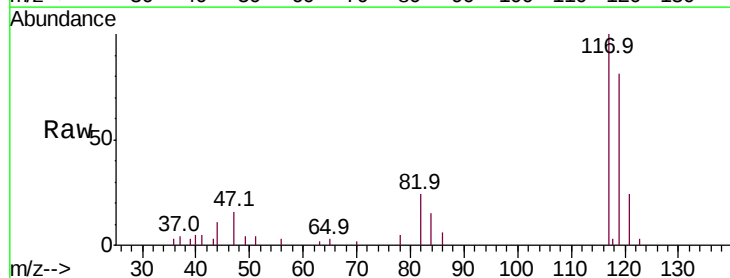
Manual Integrations
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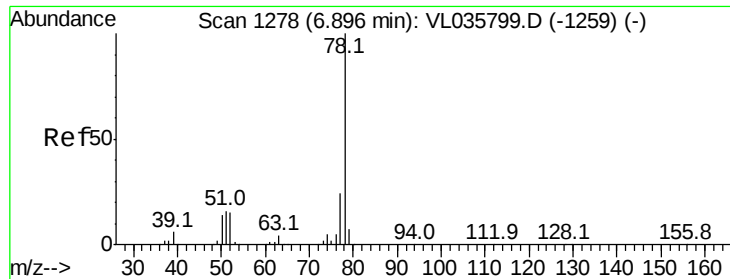
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#35
Carbon Tetrachloride
Concen: 0.067 ppbv
RT: 6.99 min Scan# 1306
Delta R.T. -0.04 min
Lab File: VL035869.D
Acq: 5 Nov 2020 21:02

Tgt Ion: 117 Resp: 13676
Ion Ratio Lower Upper
117 100
119 81.1 75.6 113.4
121 24.1 25.1 37.7#





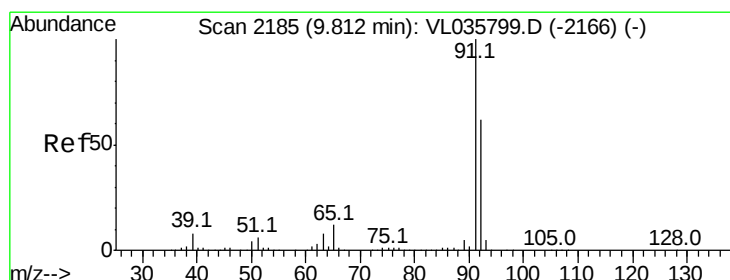
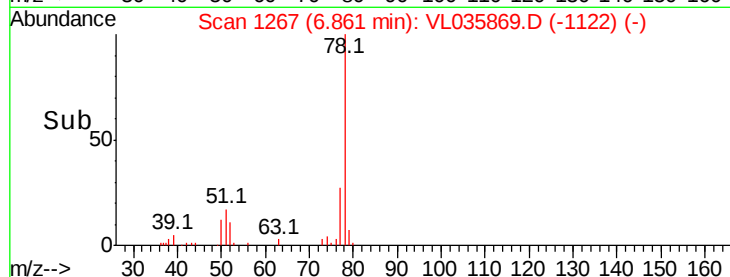
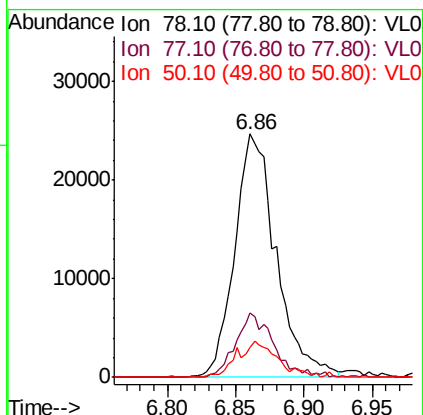
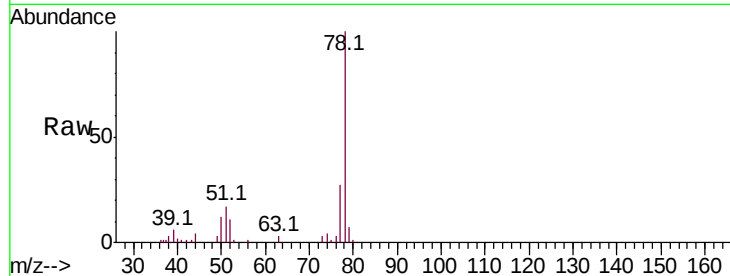
#36
Benzene
Concen: 0.183 ppbv
RT: 6.86 min Scan# 1267
Delta R.T. -0.04 min
Lab File: VL035869.D
Acq: 5 Nov 2020 21:02

Instrument :
MSVOA_L
ClientSampleId :
QA1

Tot Ion	Ratio	Lower	Upper
78	100		
77	26.6	19.3	28.9
50	12.2	11.4	17.2

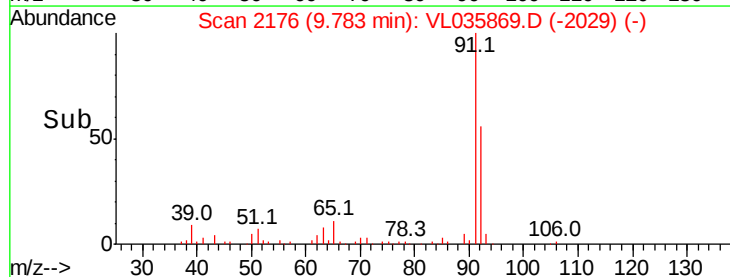
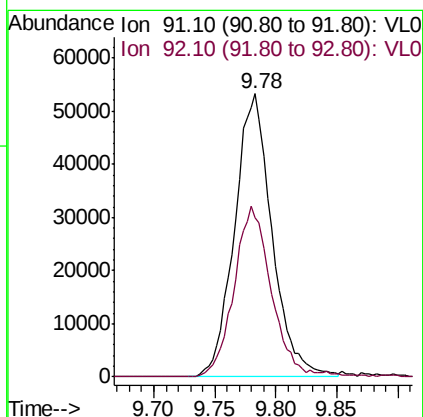
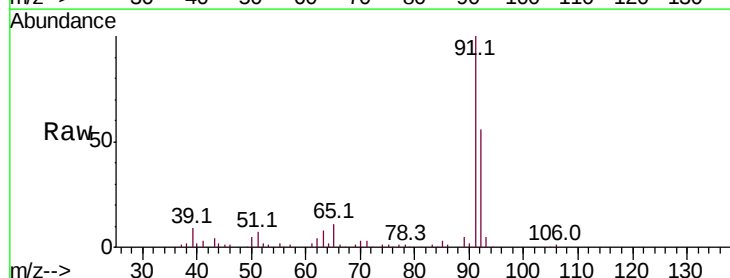
Manual Integrations
APPROVED

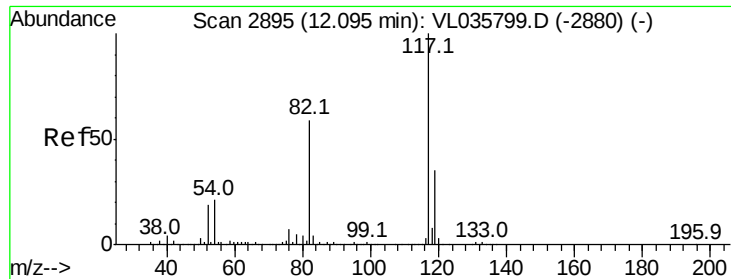
MMDadoda
11/9/2020 1:38:46 PM



#53
Toluene
Concen: 0.329 ppbv
RT: 9.78 min Scan# 2176
Delta R.T. -0.03 min
Lab File: VL035869.D
Acq: 5 Nov 2020 21:02

Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.8	49.8	74.6





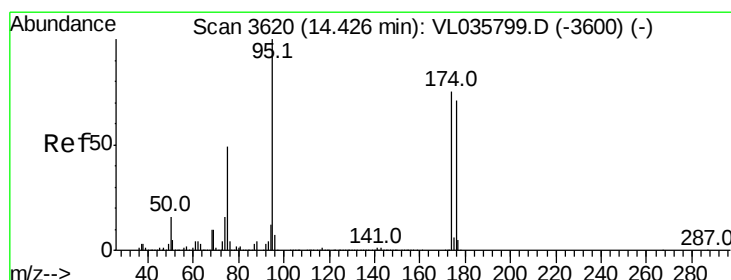
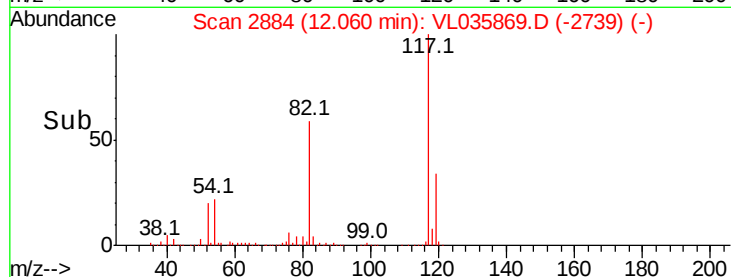
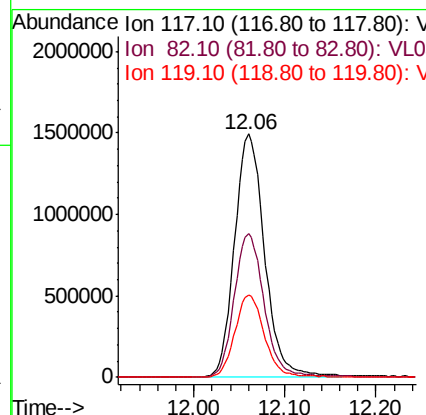
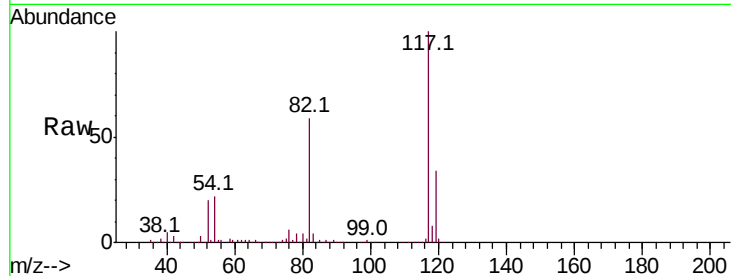
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2884
Delta R.T. -0.04 min
Lab File: VL035869.D
Acq: 5 Nov 2020 21:02

Instrument :
MSVOA_L
ClientSampleId :
QA1

Tot Ion	Ratio	Lower	Upper
117	100		
82	59.7	50.6	76.0
119	33.6	52.6	78.8#

Manual Integrations
APPROVED

MMDadoda
11/9/2020 1:38:46 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.970 ppbv
RT: 14.39 min Scan# 3609
Delta R.T. -0.04 min
Lab File: VL035869.D
Acq: 5 Nov 2020 21:02

Tgt Ion	Ratio	Lower	Upper
95	100		
174	76.4	59.8	89.6
175	5.3	4.3	6.5

