

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111919\
 Data File : VL034393.D
 Acq On : 20 Nov 2019 00:13
 Operator : SY/AP
 Sample : K5924-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Manual Integrations
 APPROVED

MMDadoda
 11/20/2019 3:54:12 PM

Quant Time: Nov 20 06:13:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 20 2019
 QLast Update : Wed Nov 20 03:30:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	992466	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	1918362	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	1906181	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.48	95	1603655	10.00	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	49070	0.273	ppbv	94
4) Chloromethane	3.11	50	27035	0.370	ppbv #	85
9) Propene	2.99	41	39209m	0.713	ppbv	
11) Trichlorofluoromethane	3.93	101	33358	0.187	ppbv	92
13) Ethanol	3.60	45	2840460	176.404	ppbv	94
15) Acetone	3.83	43	1092255	7.686	ppbv	100
19) Isopropyl Alcohol	3.97	45	5330054	51.567	ppbv #	99
20) Methylene Chloride	4.34	84	74820	1.485	ppbv	96
26) Hexane	5.70	57	190280	1.746	ppbv #	51
31) cis-1,2-Dichloroethene	5.56	61	19663m	0.175	ppbv	
34) 2-Butanone	5.25	43	45277m	0.287	ppbv	
35) Carbon Tetrachloride	7.04	117	23269	0.141	ppbv #	61
36) Benzene	6.91	78	33059	0.172	ppbv #	88
38) Trichloroethene	7.86	130	12996m	0.165	ppbv	
52) Tetrachloroethene	11.28	164	5411921	65.225	ppbv	90
53) Toluene	9.85	91	83274	0.382	ppbv	94
59) m/p-Xylene	13.02	91	24985m	0.098	ppbv	

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

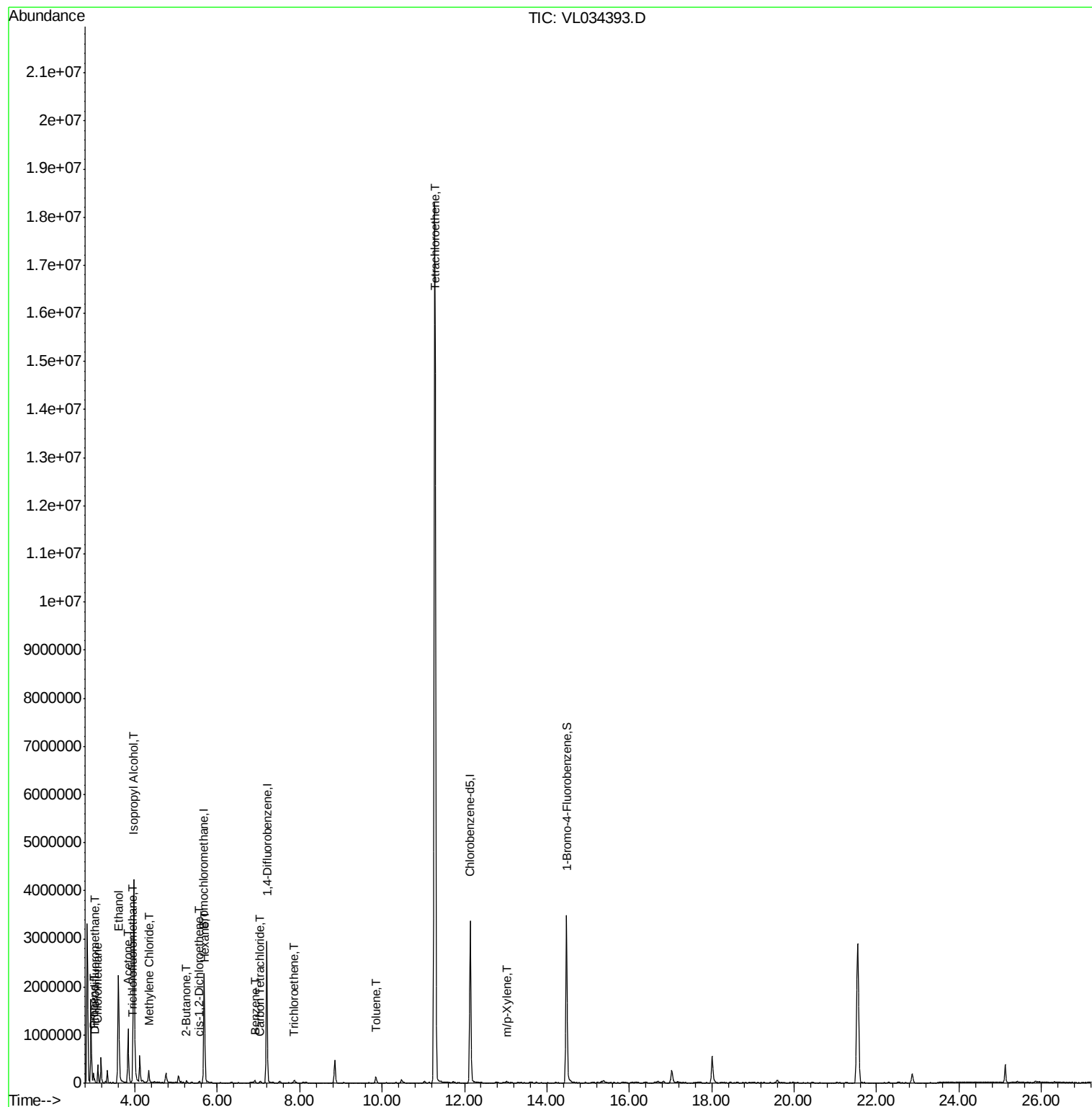
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111919\
Data File : VL034393.D
Acq On : 20 Nov 2019 00:13
Operator : SY/AP
Sample : K5924-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

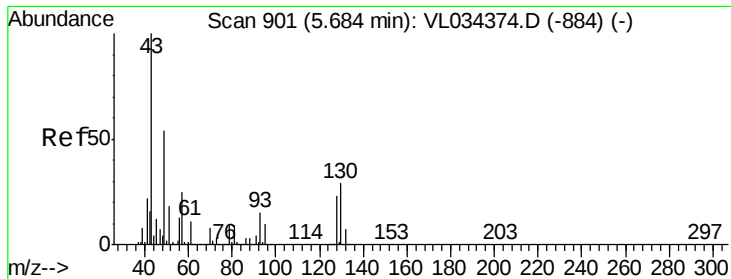
Instrument :
MSVOA_L
ClientSampleId :
IA2

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11/20/2019 3:54:12 PM

Quant Time: Nov 20 06:13:16 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 20 03:30:54 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.01 min

Lab File: VL034393.D

Acq: 20 Nov 2019 00:13

Instrument :

MSVOA_L

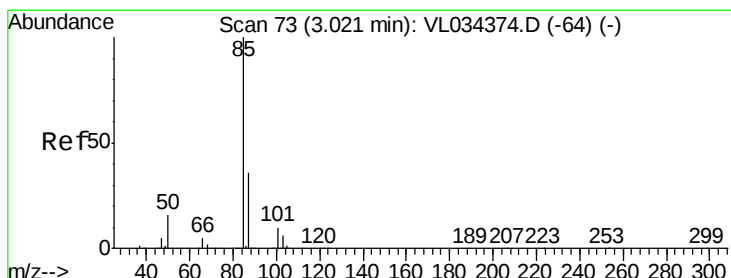
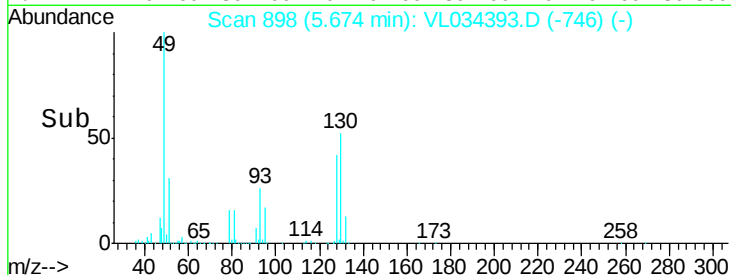
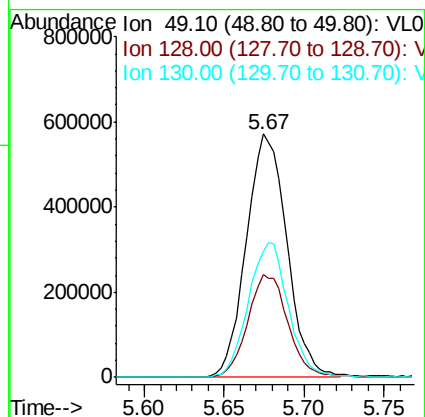
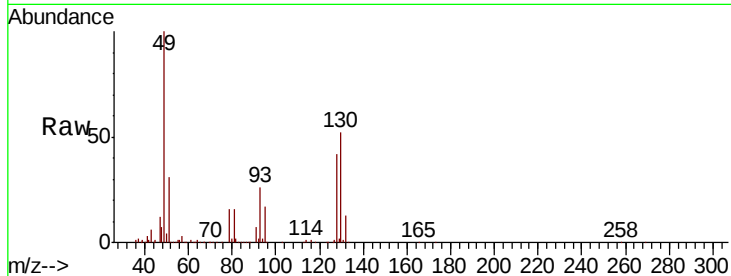
ClientSampled :

IA2

Tot Ion:	49	Resp:	992466
Ion	Ratio	Lower	Upper
49	100		
128	42.0	21.8	65.3
130	54.8	28.0	84.0

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#2

Dichlorodifluoromethane

Concen: 0.273 ppbv

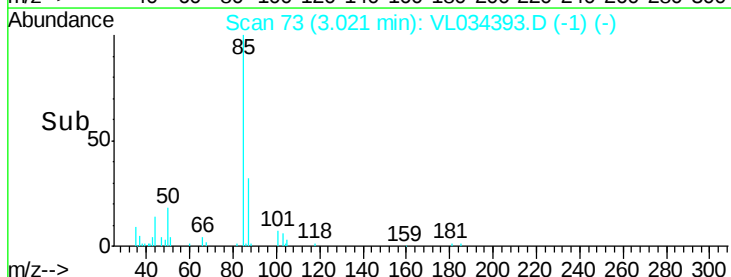
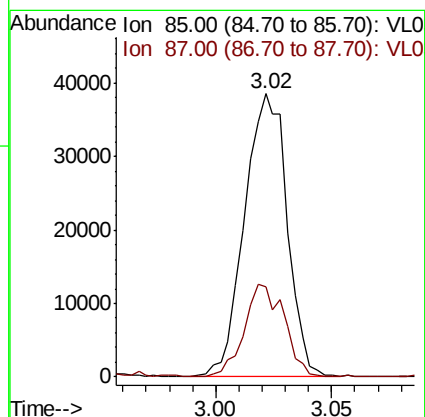
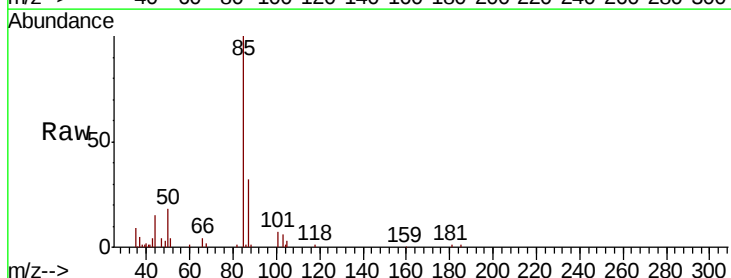
RT: 3.02 min Scan# 73

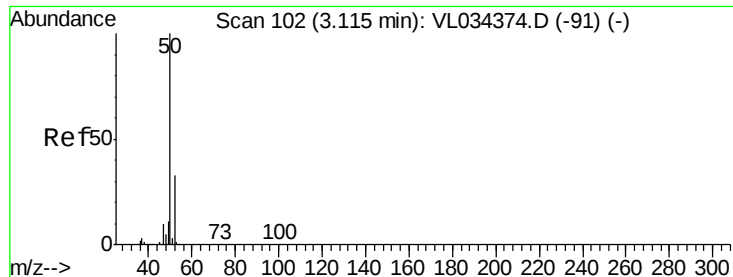
Delta R.T. -0.00 min

Lab File: VL034393.D

Acq: 20 Nov 2019 00:13

Tgt Ion:	85	Resp:	49070
Ion	Ratio	Lower	Upper
85	100		
87	32.0	28.5	42.7





#4

Chloromethane

Concen: 0.370 ppbv

RT: 3.11 min Scan# 101

Delta R.T. -0.00 min

Lab File: VL034393.D

Acq: 20 Nov 2019 00:13

Instrument :

MSVOA_L

ClientSampled :

IA2

Tot Ion: 50 Resp: 27035

Ion Ratio Lower Upper

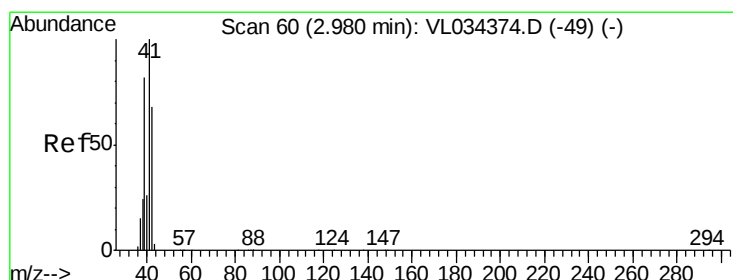
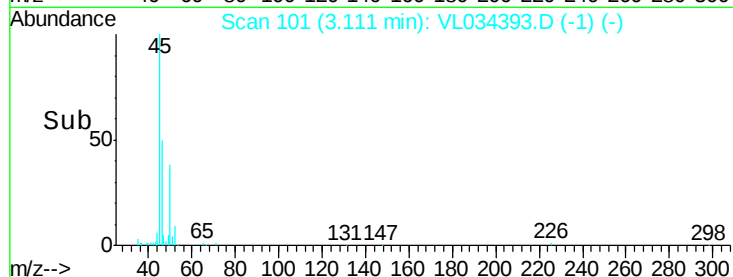
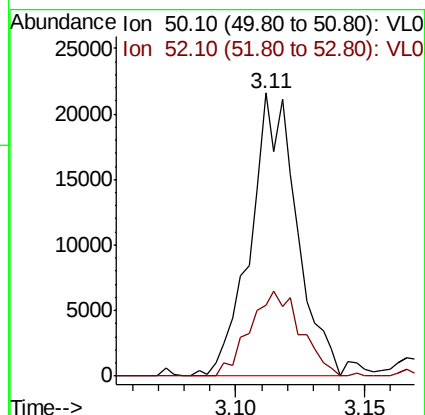
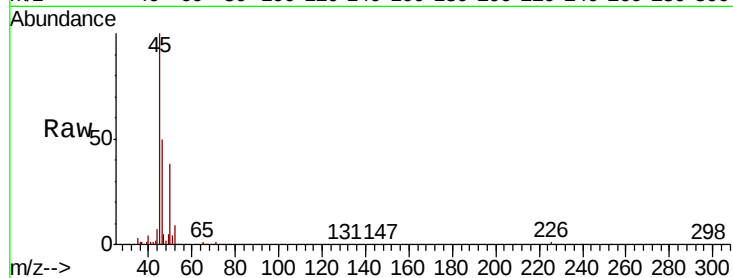
50 100

52 25.0 26.8 40.2#

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#9

Propene

Concen: 0.713 ppbv m

RT: 2.99 min Scan# 64

Delta R.T. 0.01 min

Lab File: VL034393.D

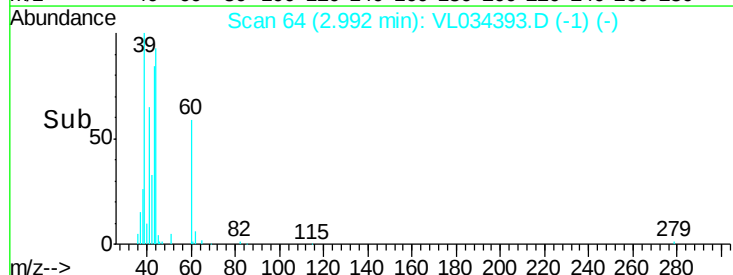
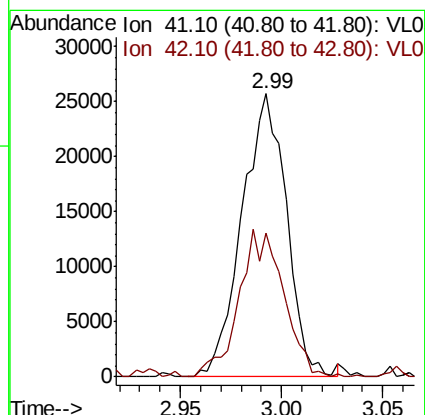
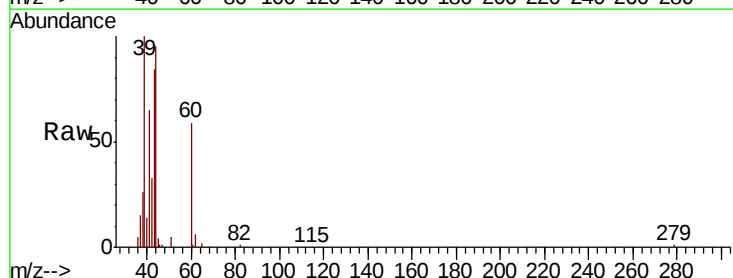
Acq: 20 Nov 2019 00:13

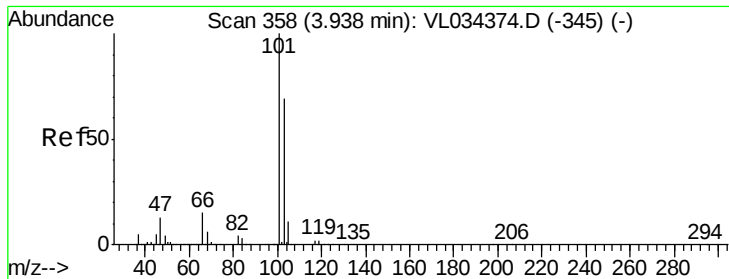
Tgt Ion: 41 Resp: 39209

Ion Ratio Lower Upper

41 100

42 229.6 54.6 82.0#





#11

Trichlorofluoromethane

Concen: 0.187 ppbv

RT: 3.93 min Scan# 357

Delta R.T. -0.00 min

Lab File: VL034393.D

Acq: 20 Nov 2019 00:13

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tot Ion:101 Resp: 33358

Ion Ratio Lower Upper

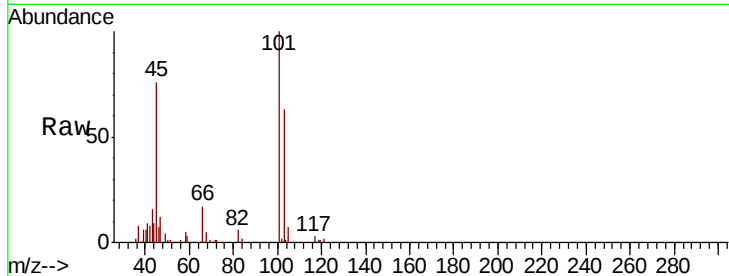
101 100

103 62.8 55.4 83.0

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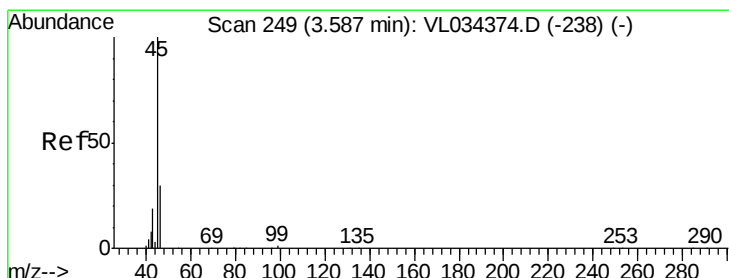
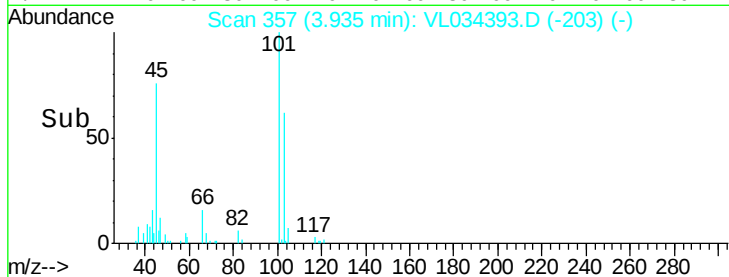
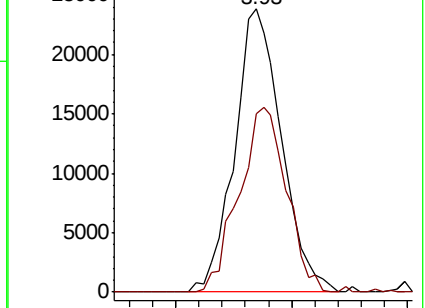
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 176.404 ppbv

RT: 3.60 min Scan# 252

Delta R.T. 0.01 min

Lab File: VL034393.D

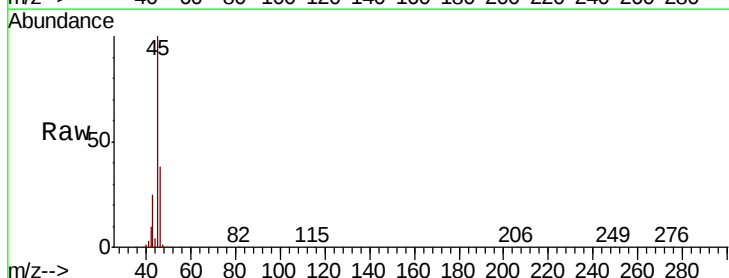
Acq: 20 Nov 2019 00:13

Tgt Ion: 45 Resp: 2840460

Ion Ratio Lower Upper

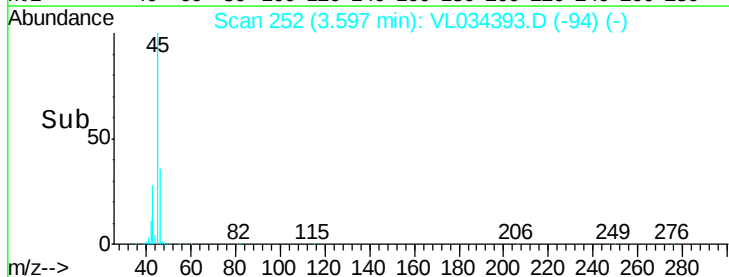
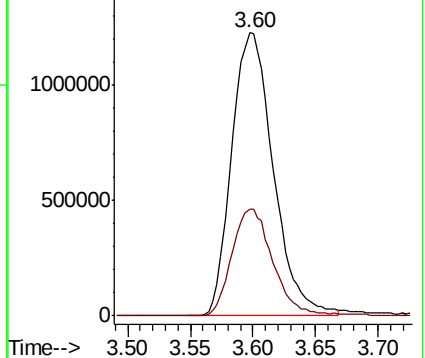
45 100

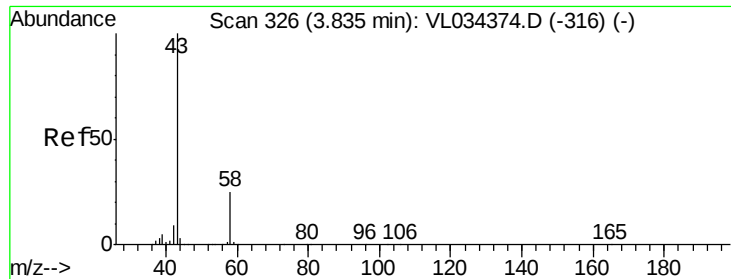
46 37.8 13.8 55.4



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 7.686 ppbv

RT: 3.83 min Scan# 325

Delta R.T. -0.00 min

Lab File: VL034393.D

Acq: 20 Nov 2019 00:13

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tot Ion: 43 Resp: 1092255

Ion Ratio Lower Upper

43 100

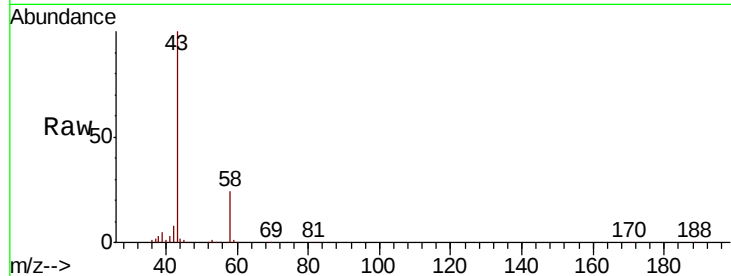
58 25.2 20.2 30.4

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.83

800000

600000

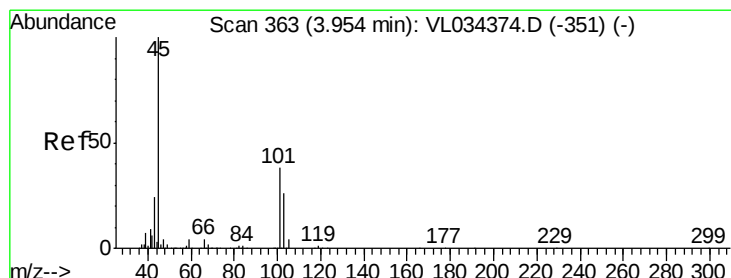
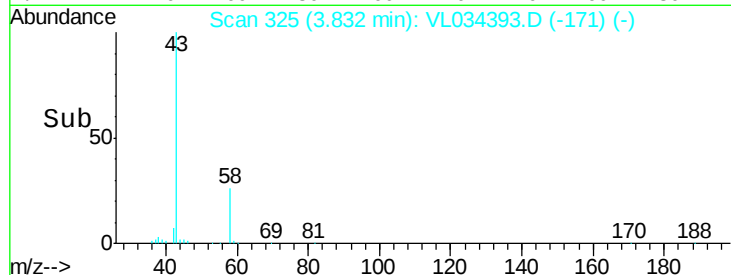
400000

200000

0

3.80 3.85 3.90

Time-->



#19

Isopropyl Alcohol

Concen: 51.567 ppbv

RT: 3.97 min Scan# 368

Delta R.T. 0.02 min

Lab File: VL034393.D

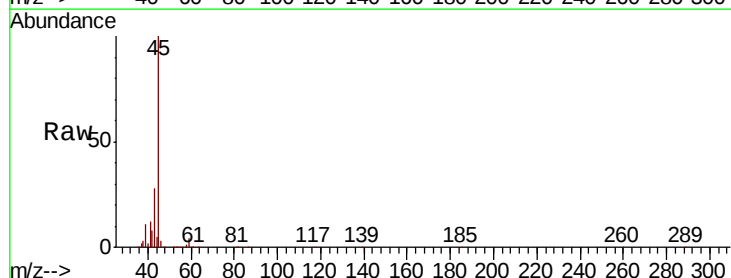
Acq: 20 Nov 2019 00:13

Tgt Ion: 45 Resp: 5330054

Ion Ratio Lower Upper

45 100

58 1.1 1.3 1.9#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.97

2500000

2000000

1500000

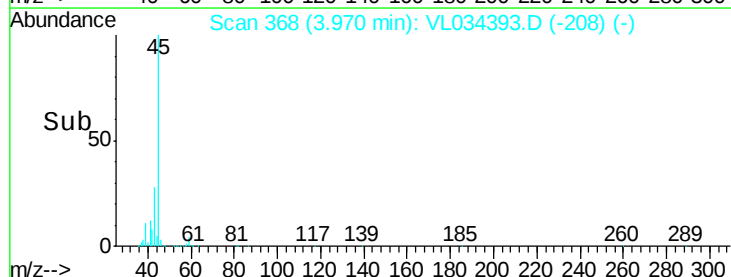
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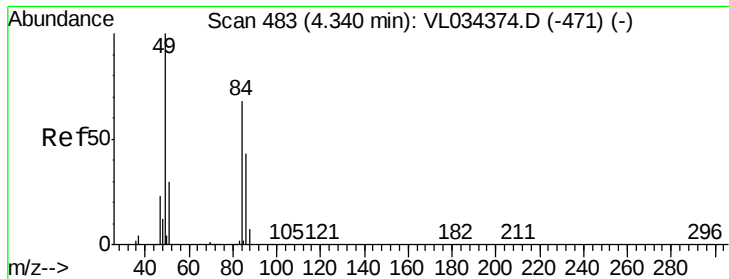
500000

0

3.90 4.00 4.10

Time-->





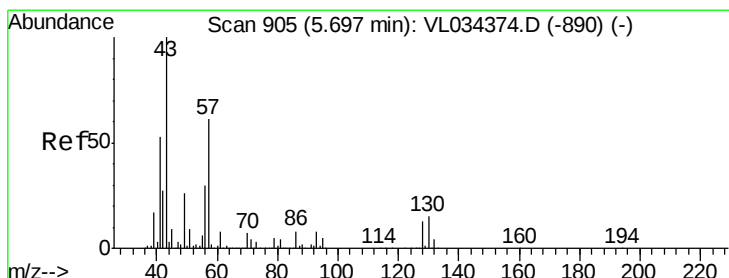
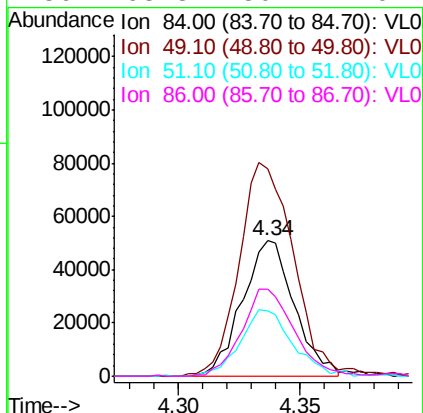
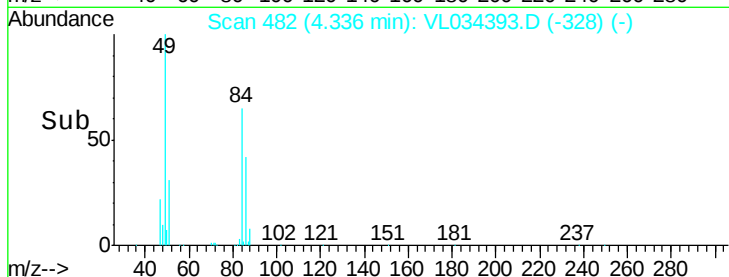
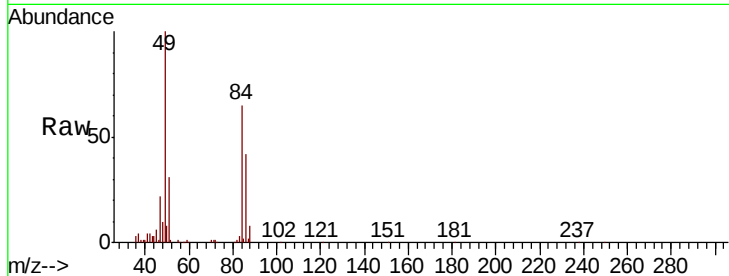
#20
Methvlene Chloride
Concen: 1.485 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.00 min
Lab File: VL034393.D
Acq: 20 Nov 2019 00:13

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tot Ion:	84	Resp:	74820
Ion	Ratio	Lower	Upper
84	100		
49	151.9	116.8	175.2
51	49.0	35.6	53.4
86	63.8	50.7	76.1

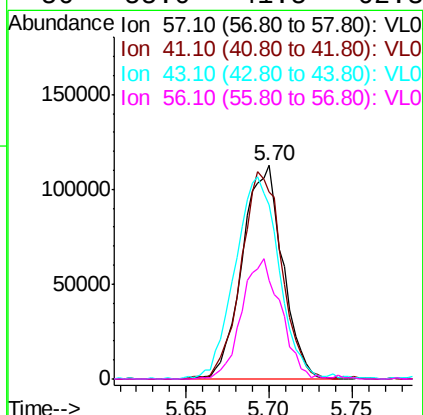
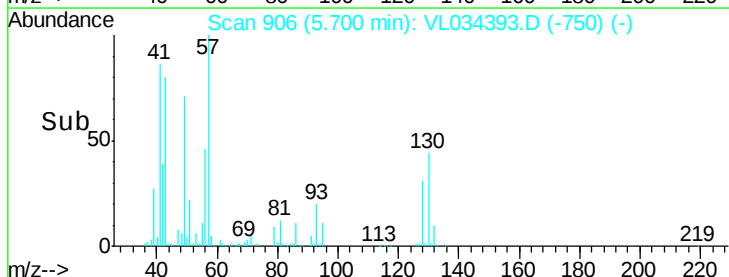
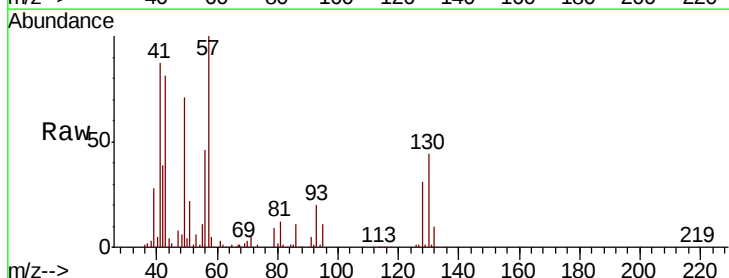
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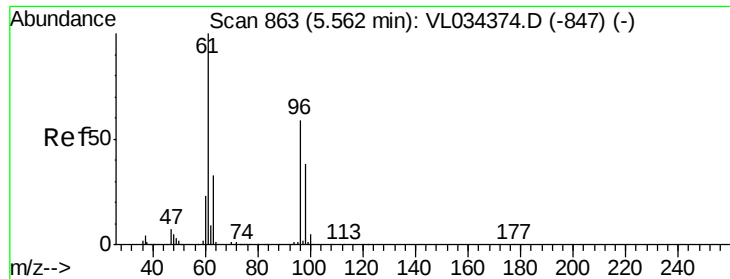
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#26
Hexane
Concen: 1.746 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.00 min
Lab File: VL034393.D
Acq: 20 Nov 2019 00:13

Tgt Ion:	57	Resp:	190280
Ion	Ratio	Lower	Upper
57	100		
41	98.5	75.0	112.4
43	104.3	186.6	279.8#
56	55.0	41.5	62.3





#31

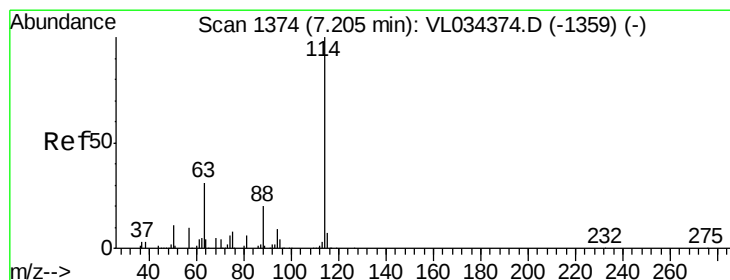
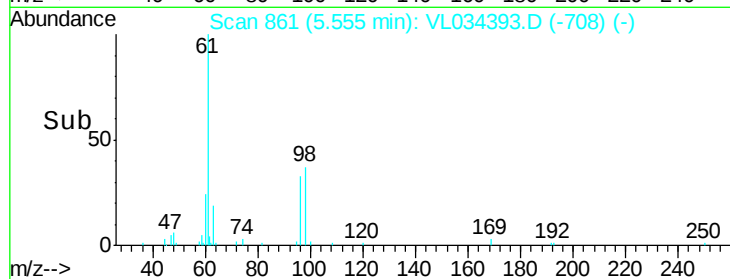
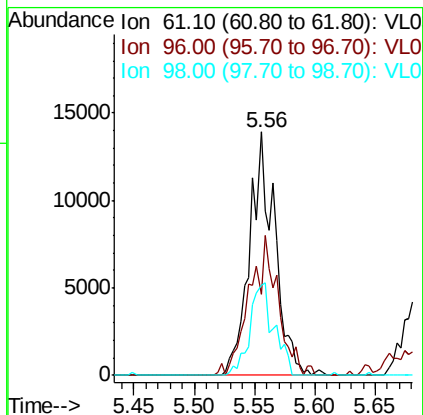
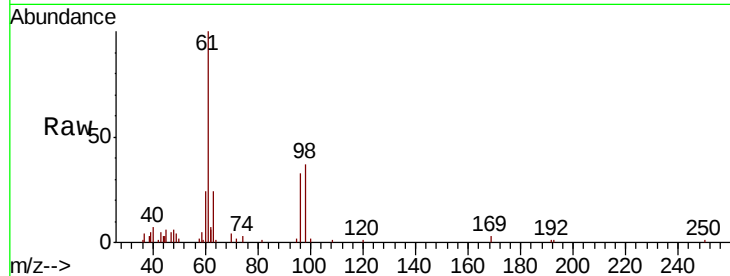
cis-1,2-Dichloroethene
Concen: 0.175 ppbv m
RT: 5.56 min Scan# 861
Delta R.T. -0.01 min
Lab File: VL034393.D
Acq: 20 Nov 2019 00:13

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tot Ion	Ratio	Lower	Upper
61	100		
96	33.3	47.4	71.2#
98	36.8	30.6	45.8

Manual Integrations
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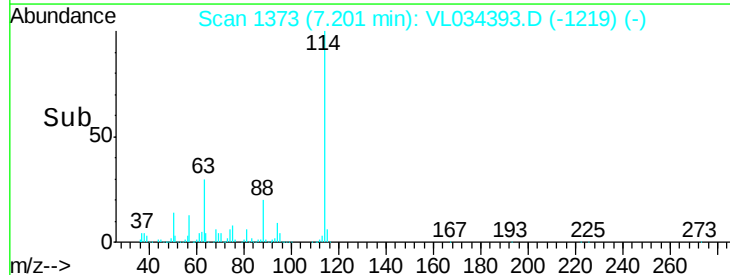
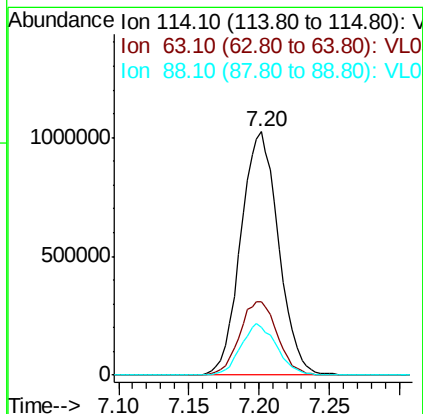
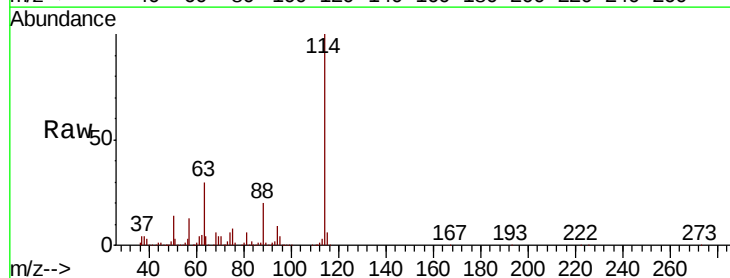
MMDadoda
11/20/2019 3:54:12 PM

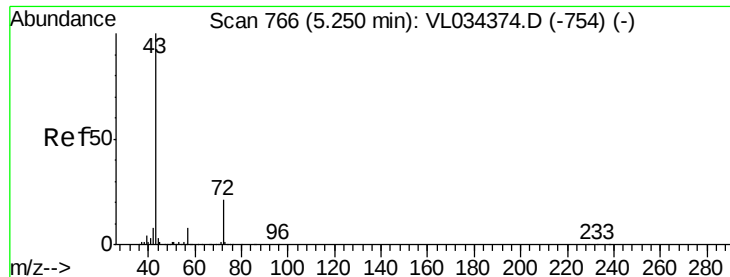


#33

1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1373
Delta R.T. -0.00 min
Lab File: VL034393.D
Acq: 20 Nov 2019 00:13

Tgt Ion	Ratio	Lower	Upper
114	100		
63	30.6	24.2	36.4
88	20.1	15.9	23.9





#34

2-Butanone

Concen: 0.287 ppbv m

RT: 5.25 min Scan# 766

Delta R.T. -0.00 min

Lab File: VL034393.D

Acq: 20 Nov 2019 00:13

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tot Ion: 43 Resp: 45277

Ion Ratio Lower Upper

43 100

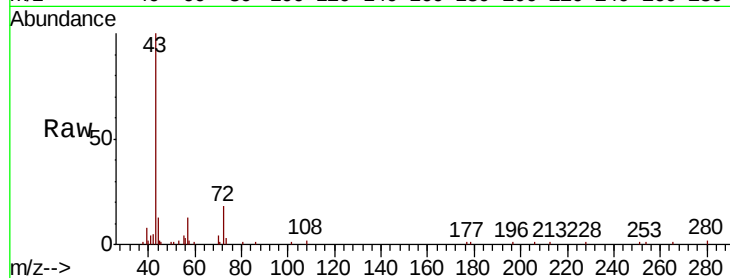
72 19.4 17.0 25.6

Manual Integrations

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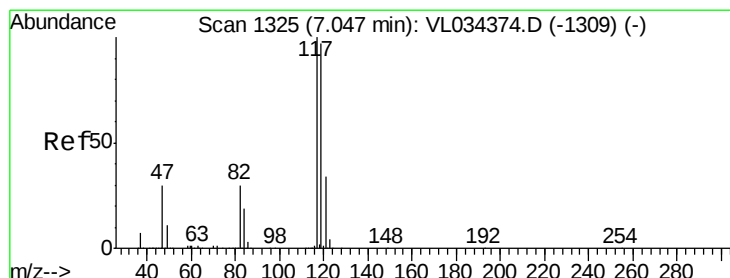
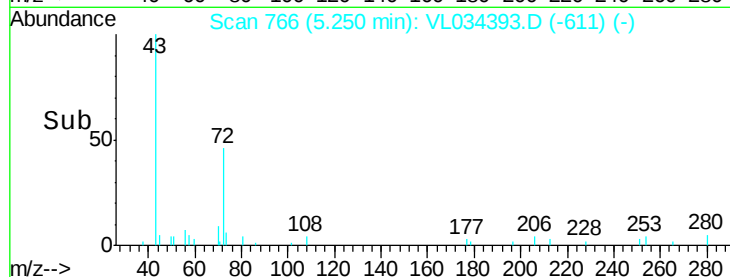
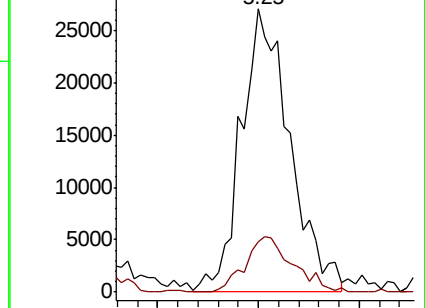
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.141 ppbv

RT: 7.04 min Scan# 1324

Delta R.T. -0.00 min

Lab File: VL034393.D

Acq: 20 Nov 2019 00:13

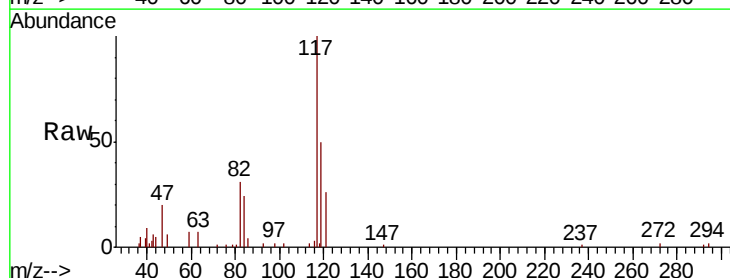
Tgt Ion: 117 Resp: 23269

Ion Ratio Lower Upper

117 100

119 49.8 77.3 115.9#

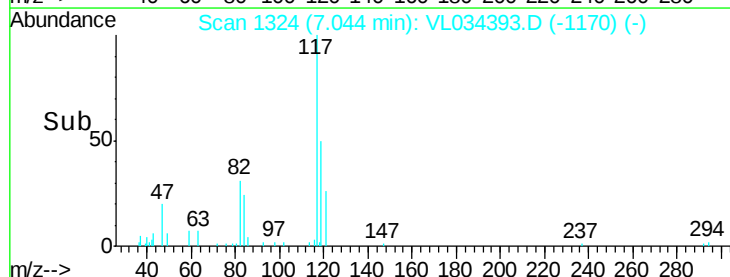
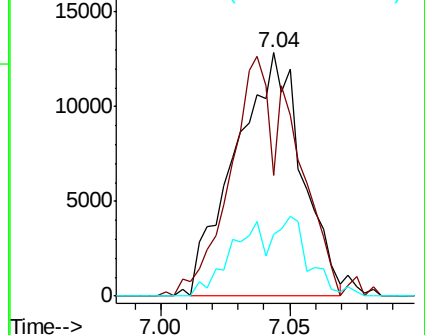
121 25.5 27.4 41.2#

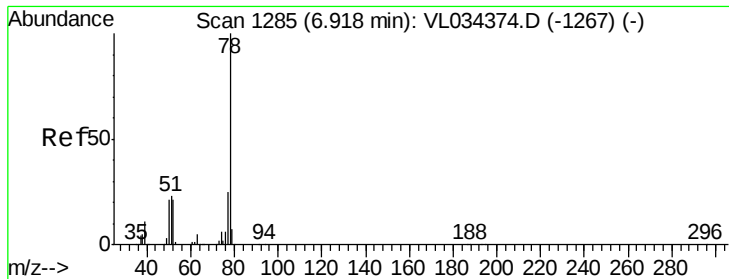


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 0.172 ppbv

RT: 6.91 min Scan# 1283

Delta R.T. -0.01 min

Lab File: VL034393.D

Acq: 20 Nov 2019 00:13

Instrument :

MSVOA_L

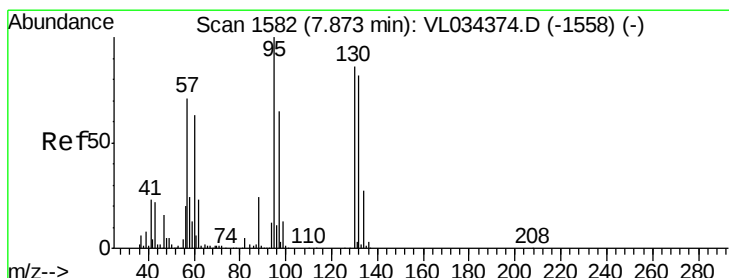
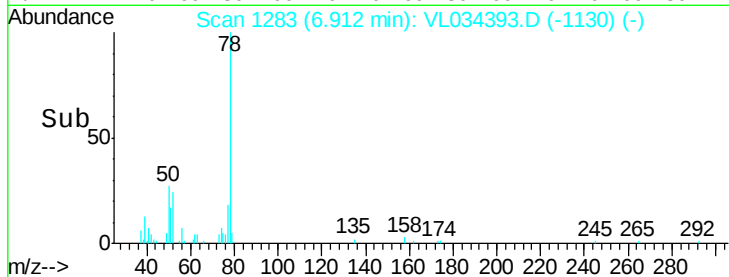
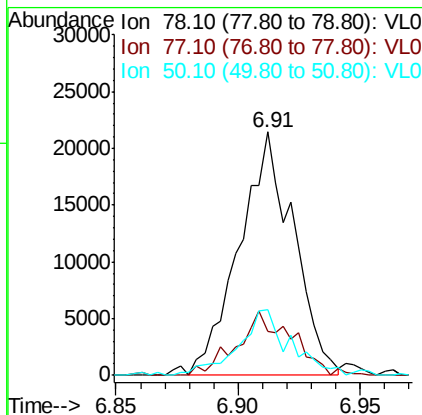
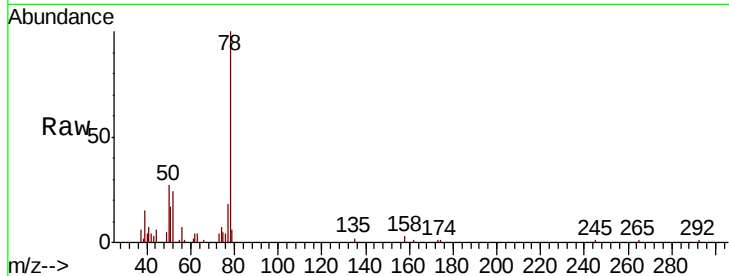
ClientSampled :

IA2

Tot Ion:	78	Resp:	33059
Ion Ratio	Lower	Upper	
78	100		
77	18.1	20.2	30.4#
50	25.4	17.1	25.7

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#38

Trichloroethene

Concen: 0.165 ppbv m

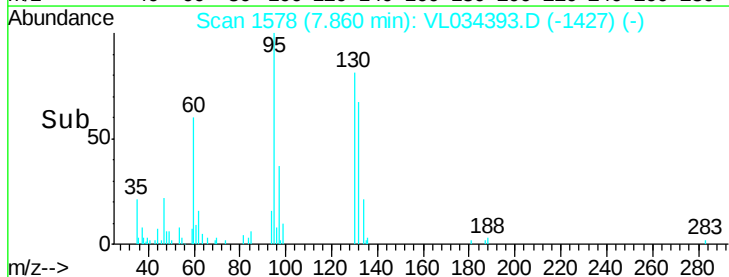
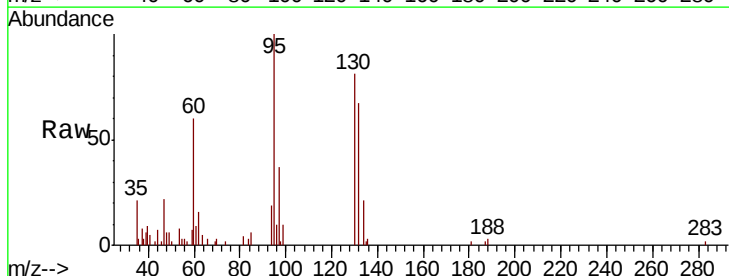
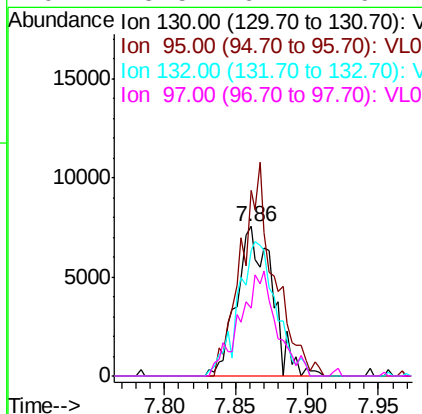
RT: 7.86 min Scan# 1578

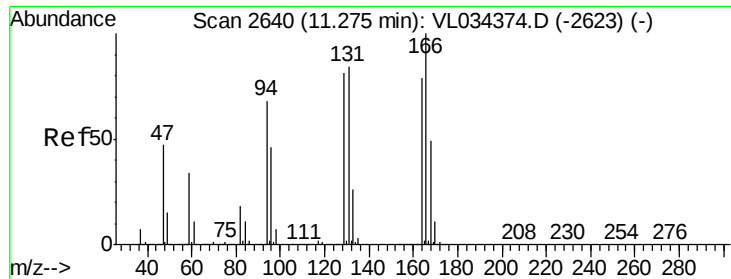
Delta R.T. -0.01 min

Lab File: VL034393.D

Acq: 20 Nov 2019 00:13

Tgt Ion:	130	Resp:	12996
Ion Ratio	Lower	Upper	
130	100		
95	124.2	93.4	140.0
132	83.8	76.4	114.6
97	45.5	61.1	91.7#





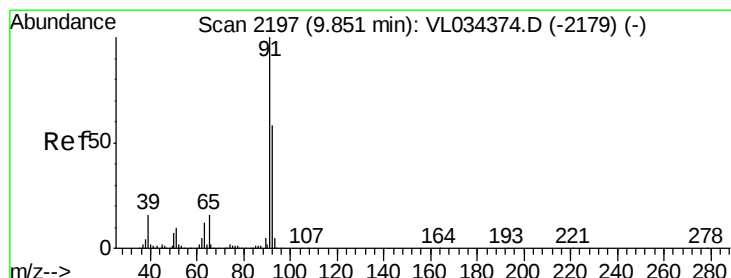
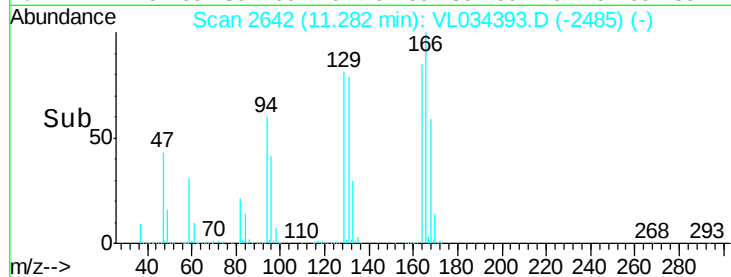
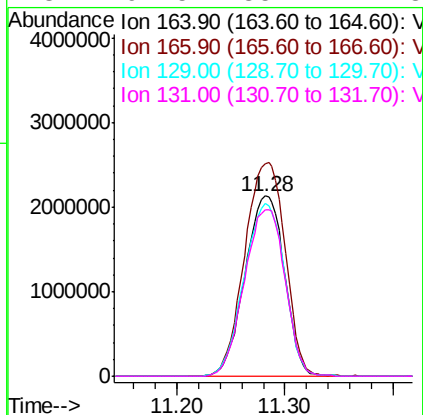
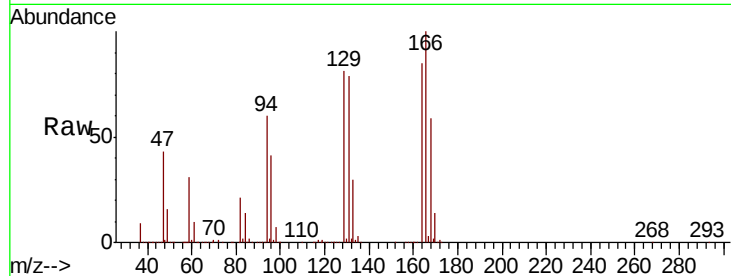
#52
Tetrachloroethene
Concen: 65.225 ppbv
RT: 11.28 min Scan# 2642
Delta R.T. 0.01 min
Lab File: VL034393.D
Acq: 20 Nov 2019 00:13

Instrument :
MSVOA_L
ClientSampled :
IA2

Tot Ion	Ratio	Lower	Upper
164	100		
166	117.4	101.7	152.5
129	95.5	82.6	123.8
131	92.5	85.2	127.8

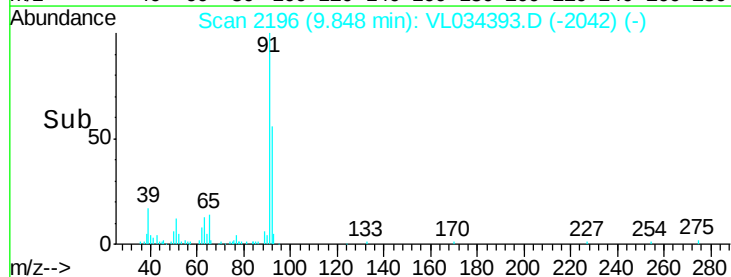
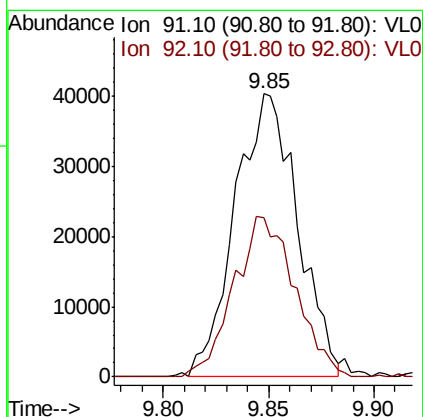
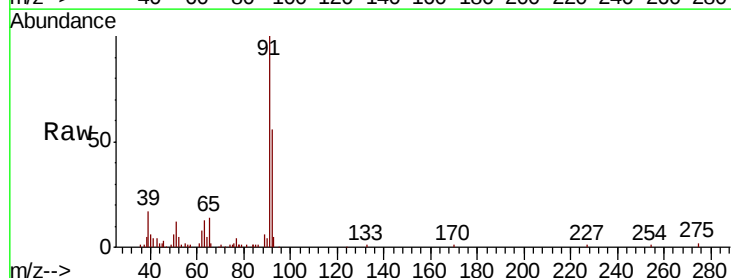
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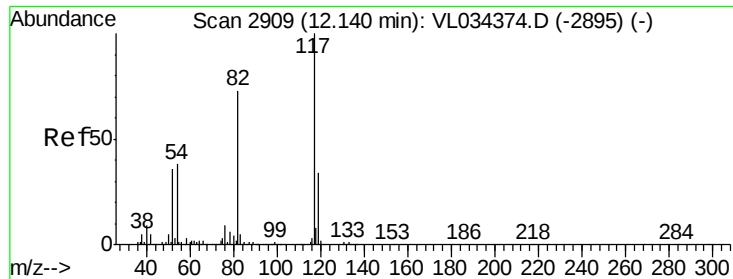
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#53
Toluene
Concen: 0.382 ppbv
RT: 9.85 min Scan# 2196
Delta R.T. -0.00 min
Lab File: VL034393.D
Acq: 20 Nov 2019 00:13

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.2	47.9	71.9





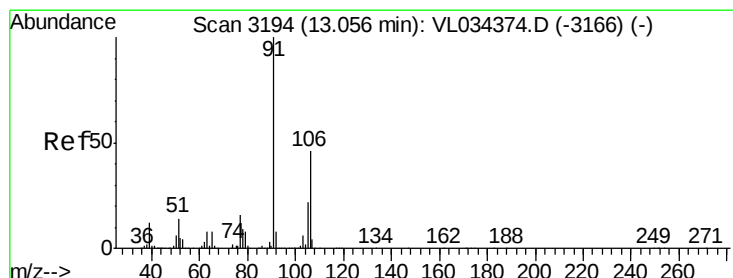
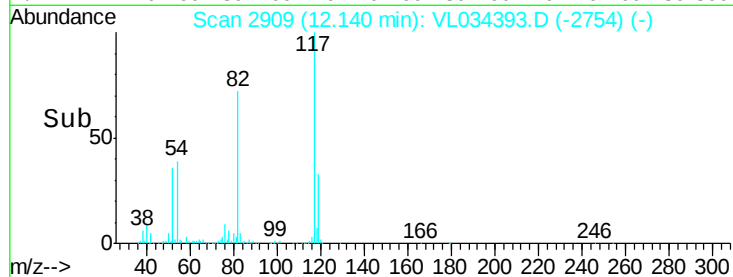
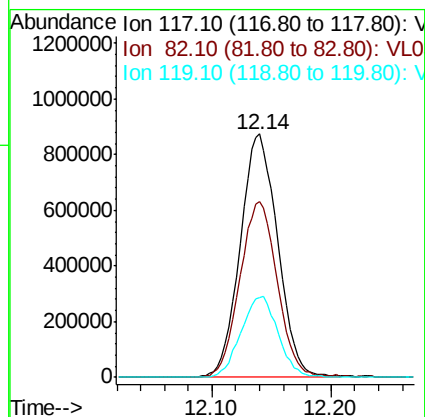
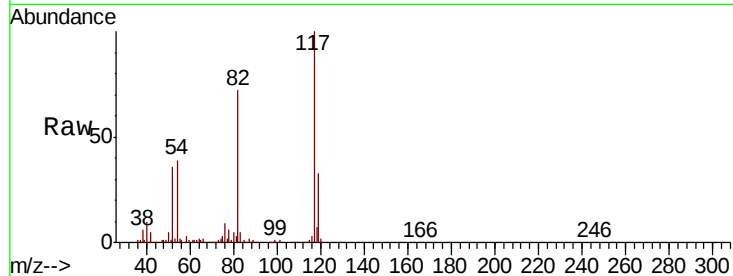
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.14 min Scan# 2909
Delta R.T. -0.00 min
Lab File: VL034393.D
Acq: 20 Nov 2019 00:13

Instrument :
MSVOA_L
ClientSampled :
IA2

Tot Ion	Ratio	Lower	Upper
117	100		
82	72.9	57.5	86.3
119	33.1	25.4	38.2

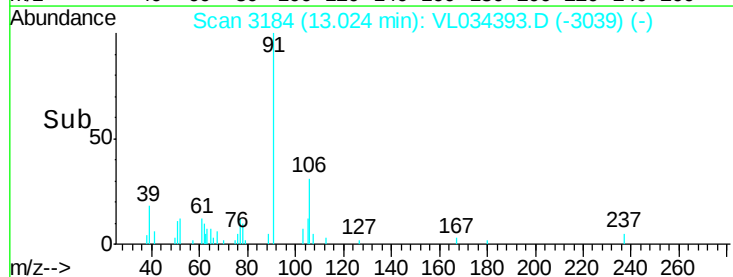
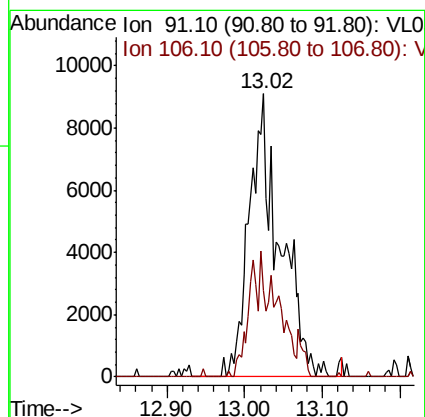
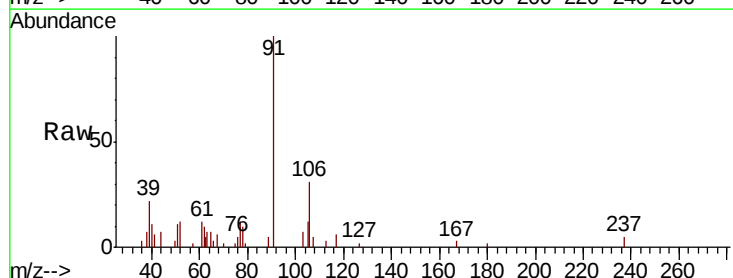
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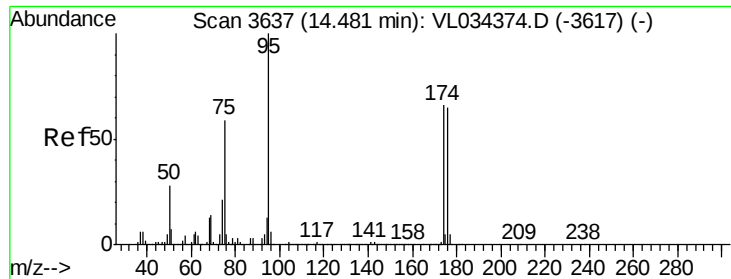
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#59
m/p-Xylene
Concen: 0.098 ppbv m
RT: 13.02 min Scan# 3184
Delta R.T. -0.03 min
Lab File: VL034393.D
Acq: 20 Nov 2019 00:13

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	34.6	51.8#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.000 ppbv
 RT: 14.48 min Scan# 3636
 Delta R.T. -0.00 min
 Lab File: VL034393.D
 Acq: 20 Nov 2019 00:13

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Tot Ion	Ion	Ratio	Lower	Upper
95	100			
174	67.2	52.2	78.2	
175	4.8	3.8	5.8	

Manual Integrations
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