

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031819\
 Data File : VL033370.D
 Acq On : 18 Mar 2019 22:40
 Operator : SY/AP
 Sample : K1952-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 L1HA-IA1

Manual Integrations
 APPROVED

MMDadoda
 3/21/2019 12:15:06 PM

Quant Time: Mar 19 08:07:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 19 08:07:53 2019
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	717495	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1582450	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.24	117	1488625	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1182426	10.72	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	59184	0.469	ppbv	96
3) Chlorodifluoromethane	3.01	51	27190m	0.330	ppbv	
4) Chloromethane	3.17	50	24784	0.556	ppbv	89
9) Propene	3.05	41	45308	1.232	ppbv #	72
10) Heptane	8.24	43	13253	0.145	ppbv	98
11) Trichlorofluoromethane	4.00	101	31779	0.253	ppbv	95
13) Ethanol	3.68	45	9442979	538.815	ppbv	100
15) Acetone	3.90	43	494013	4.429	ppbv	94
20) Methylene Chloride	4.41	84	66328	1.823	ppbv	92
26) Hexane	5.78	57	77178	1.065	ppbv #	60
34) 2-Butanone	5.33	43	41185	0.396	ppbv	96
35) Carbon Tetrachloride	7.12	117	8701m	0.078	ppbv	
36) Benzene	7.00	78	35424m	0.250	ppbv	
52) Tetrachloroethene	11.38	164	7845m	0.133	ppbv	
53) Toluene	9.94	91	2291474	14.240	ppbv	99
59) m/p-Xylene	13.12	91	37147m	0.205	ppbv	
74) 1,2,4-Trimethylbenzene	16.93	105	30731	0.149	ppbv #	73

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

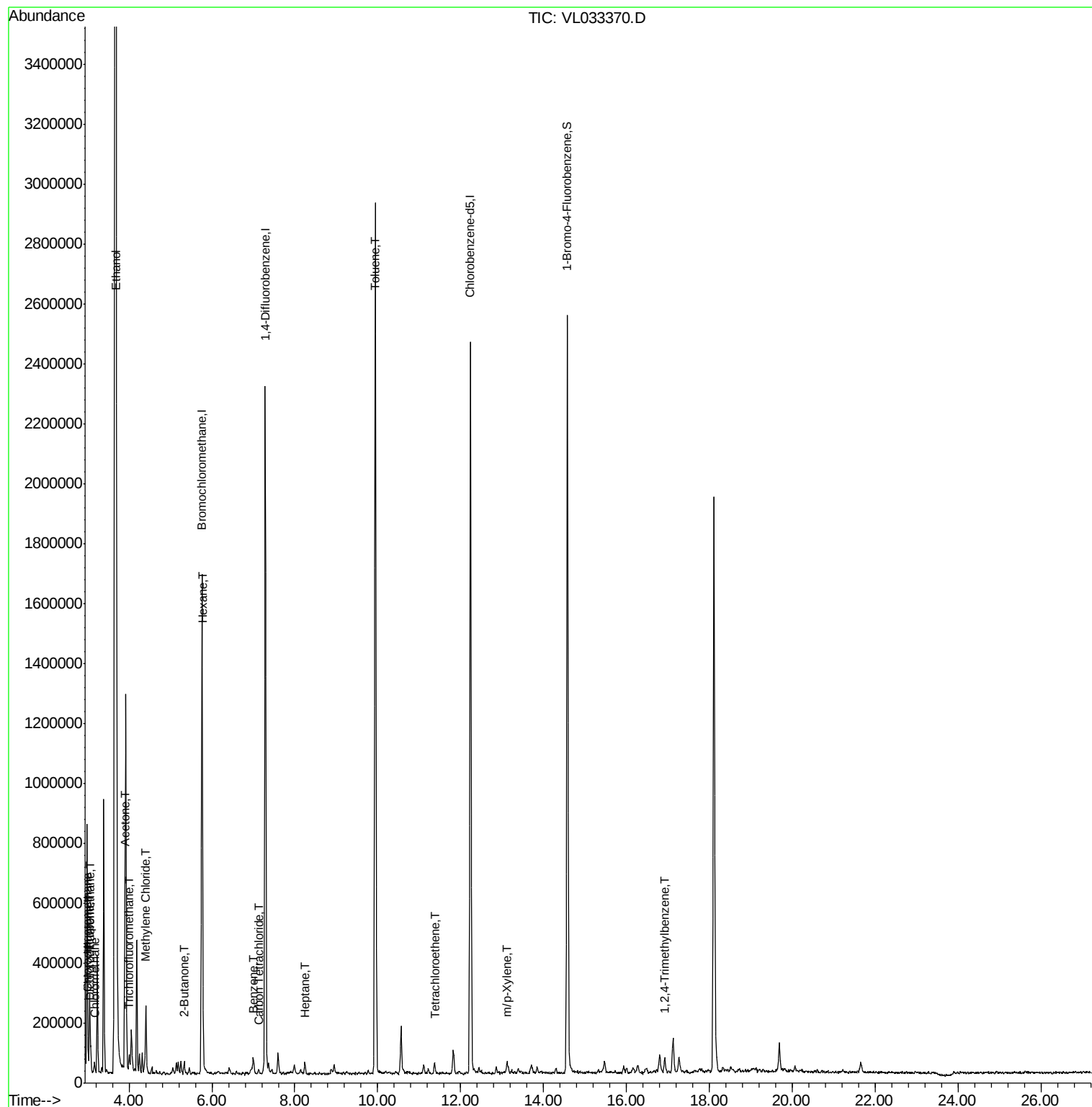
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL031819\
Data File : VL033370.D
Acq On : 18 Mar 2019 22:40
Operator : SY/AP
Sample : K1952-01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

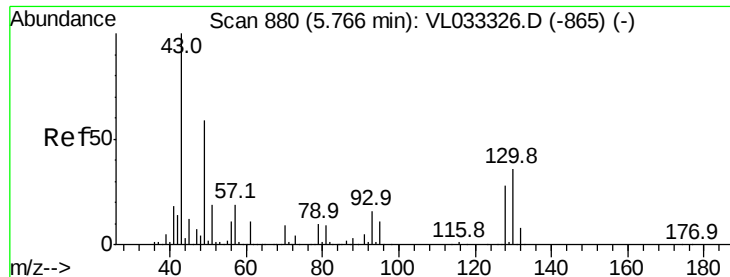
Instrument :
MSVOA_L
ClientSampleId :
L1HA-IA1

Manual Integrations
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3/21/2019 12:15:06 PM

Quant Time: Mar 19 08:07:53 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar
QLast Update : Fri Mar 15 14:52:14 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033370.D

Acq: 18 Mar 2019 22:40

Instrument :

MSVOA_L

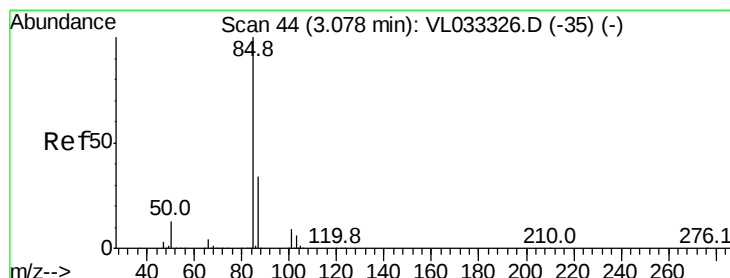
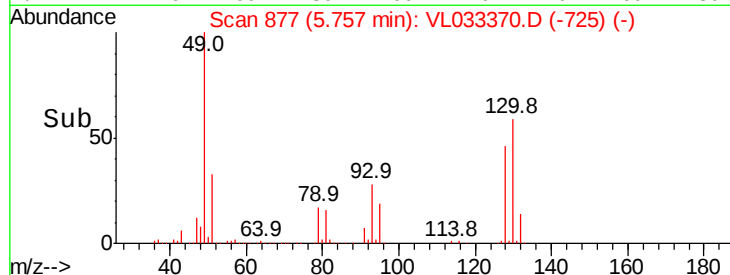
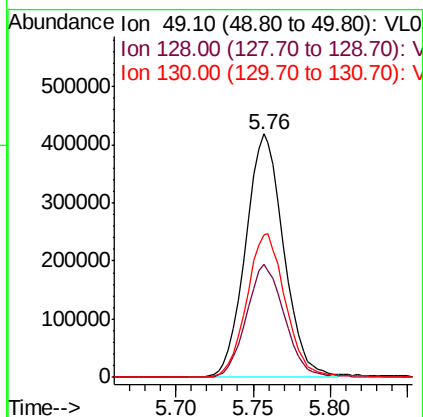
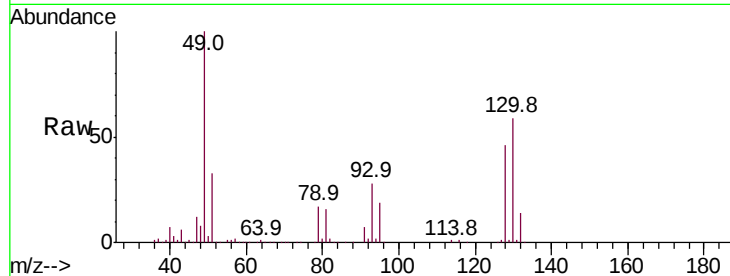
ClientSampled :

L1HA-IA1

Tot Ion:	49	Resp:	717495
Ion	Ratio	Lower	Upper
49	100		
128	46.6	23.5	70.6
130	60.5	30.1	90.3

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#2

Dichlorodifluoromethane

Concen: 0.469 ppbv

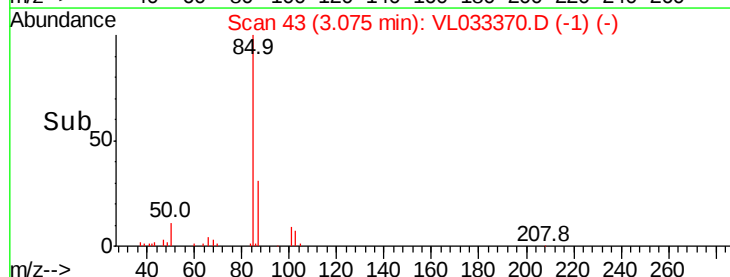
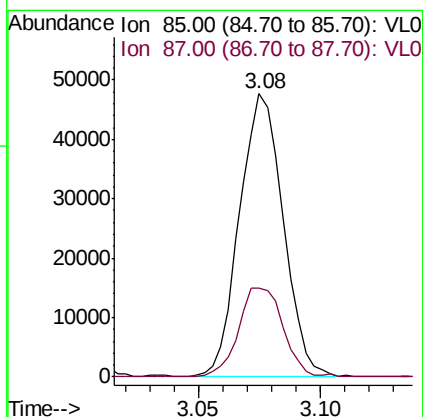
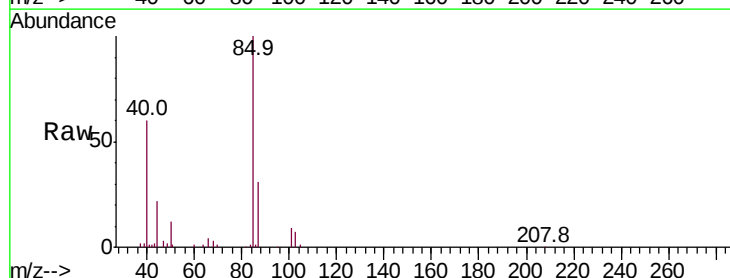
RT: 3.08 min Scan# 43

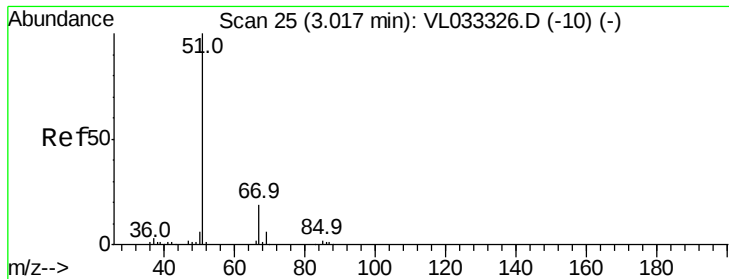
Delta R.T. -0.00 min

Lab File: VL033370.D

Acq: 18 Mar 2019 22:40

Tgt Ion:	85	Resp:	59184
Ion	Ratio	Lower	Upper
85	100		
87	31.3	26.9	40.3





#3

Chlorodifluoromethane

Concen: 0.330 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033370.D

Acq: 18 Mar 2019 22:40

Instrument :

MSVOA_L

ClientSampleId :

L1HA-IA1

Tot Ion: 51 Resp: 27190

Ion Ratio Lower Upper

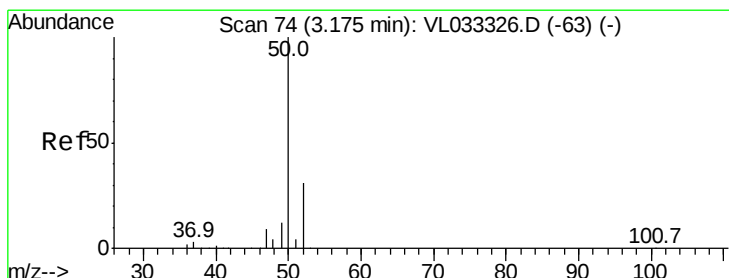
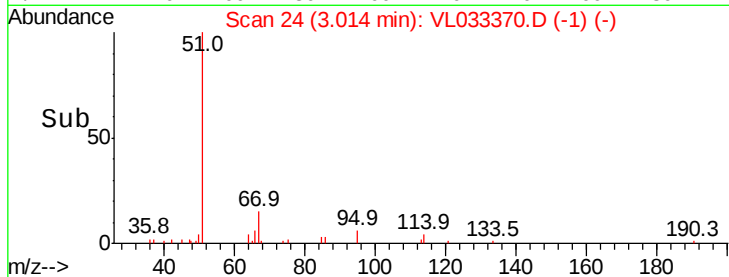
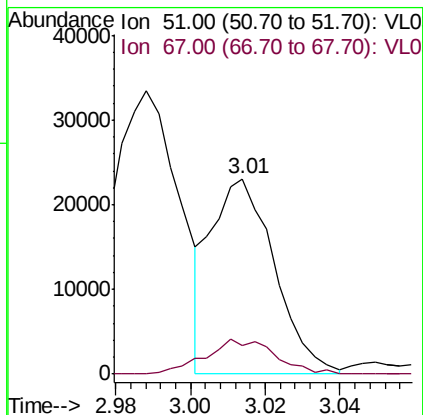
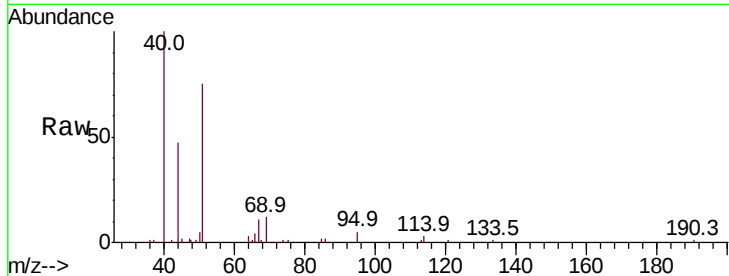
51 100

67 19.5 14.9 22.3

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#4

Chloromethane

Concen: 0.556 ppbv

RT: 3.17 min Scan# 74

Delta R.T. -0.00 min

Lab File: VL033370.D

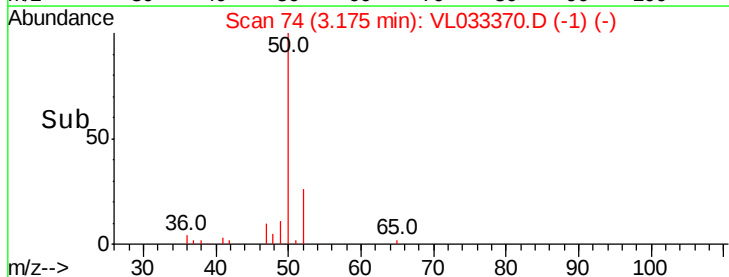
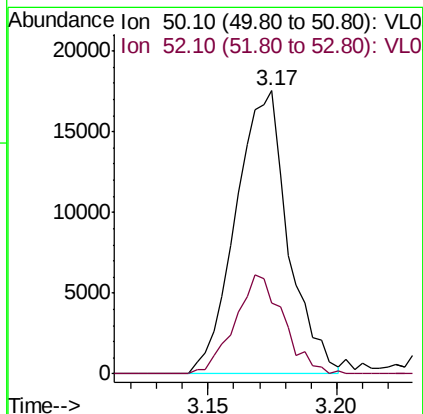
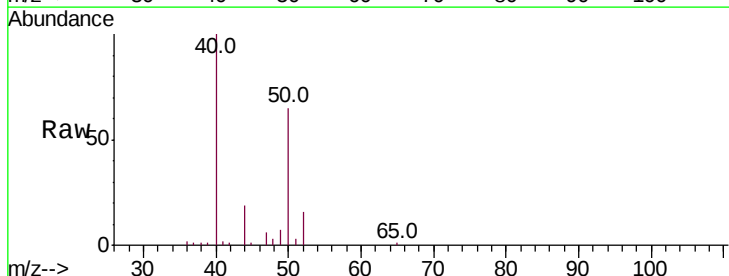
Acq: 18 Mar 2019 22:40

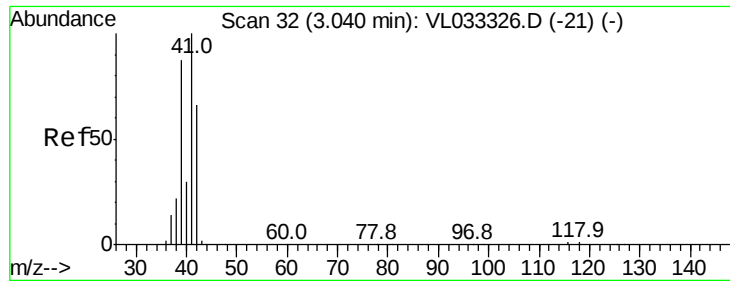
Tgt Ion: 50 Resp: 24784

Ion Ratio Lower Upper

50 100

52 25.1 25.0 37.6





#9

Propene

Concen: 1.232 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.01 min

Lab File: VL033370.D

Acq: 18 Mar 2019 22:40

Instrument :

MSVOA_L

ClientSampleId :

L1HA-IA1

Tot Ion: 41 Resp: 45308

Ion Ratio Lower Upper

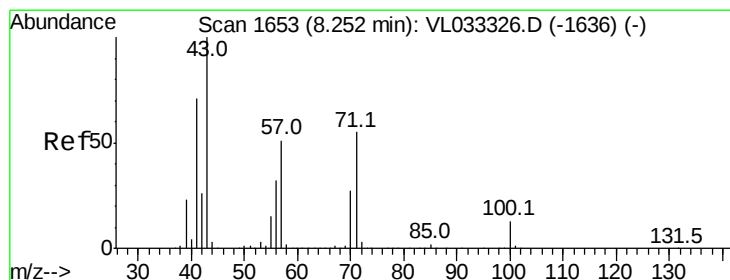
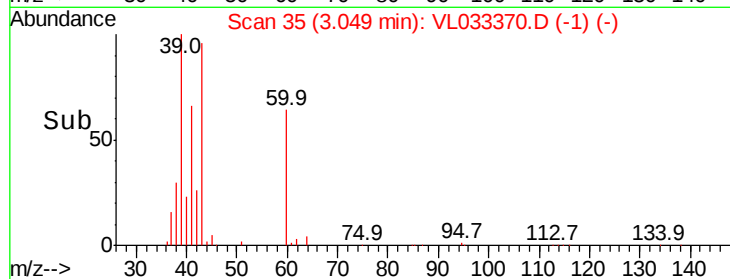
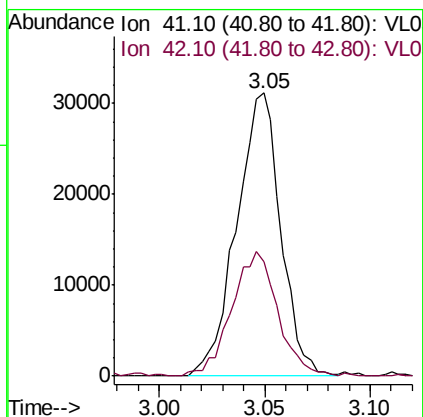
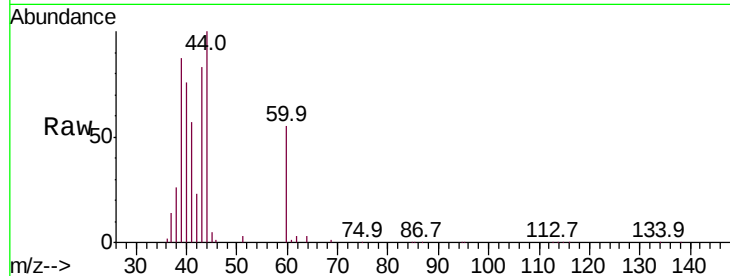
41 100

42 46.1 55.2 82.8#

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#10

Heptane

Concen: 0.145 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. -0.01 min

Lab File: VL033370.D

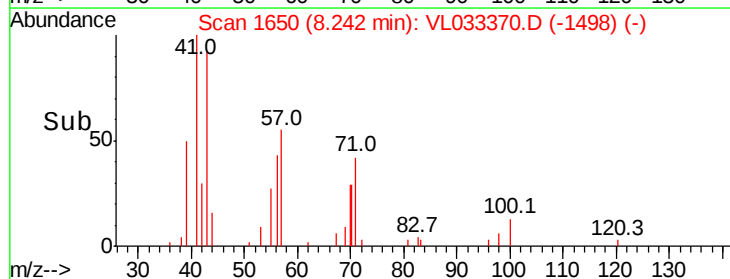
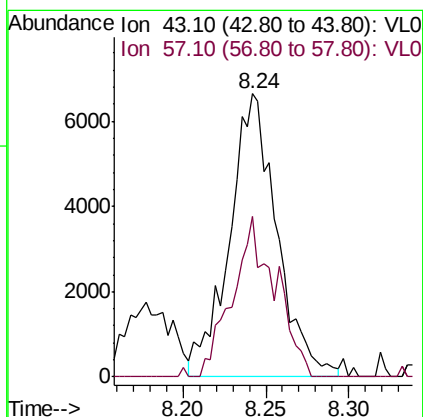
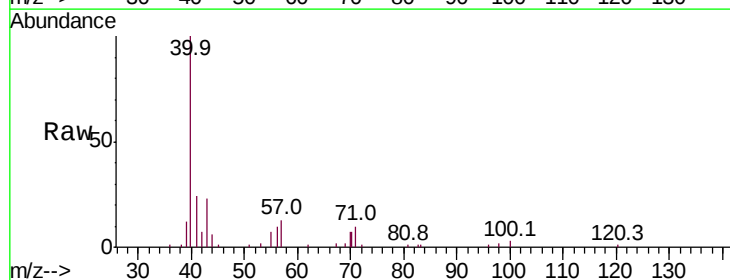
Acq: 18 Mar 2019 22:40

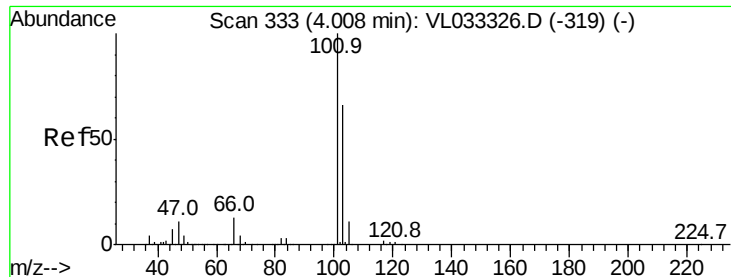
Tgt Ion: 43 Resp: 13253

Ion Ratio Lower Upper

43 100

57 51.6 40.4 60.6





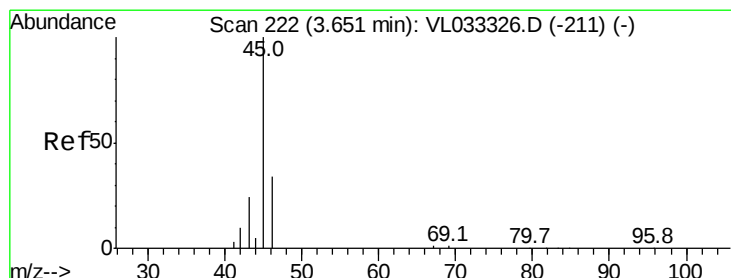
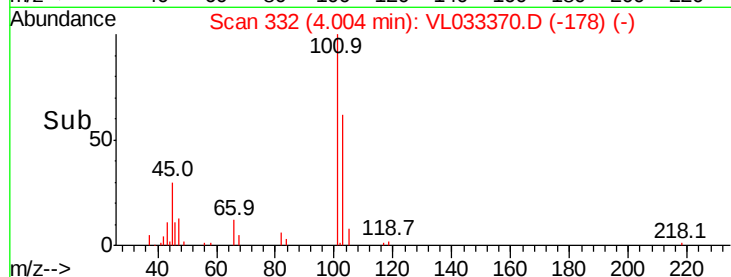
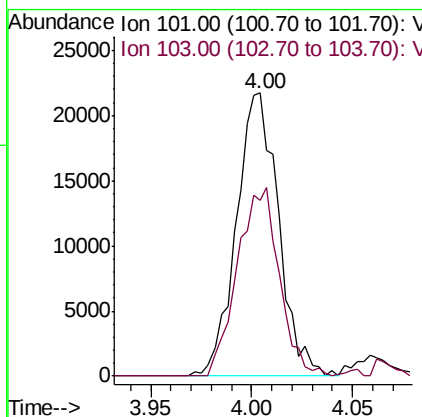
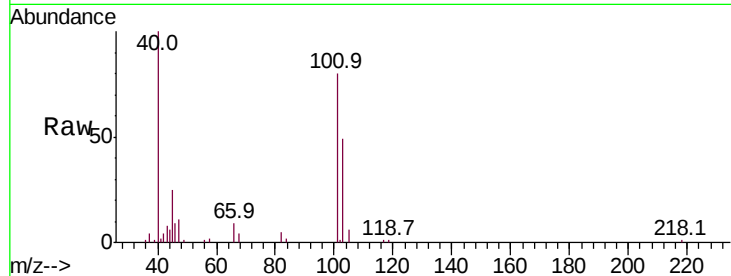
#11
 Trichlorofluoromethane
 Concen: 0.253 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. -0.00 min
 Lab File: VL033370.D
 Acq: 18 Mar 2019 22:40

Instrument :
 MSVOA_L
 ClientSampleId :
 L1HA-IA1

Tot Ion:101 Resp: 31779
 Ion Ratio Lower Upper
 101 100
 103 61.9 52.9 79.3

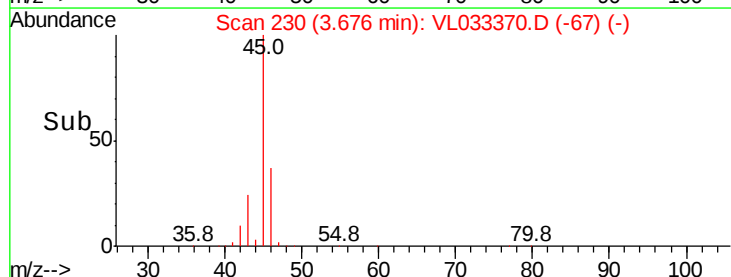
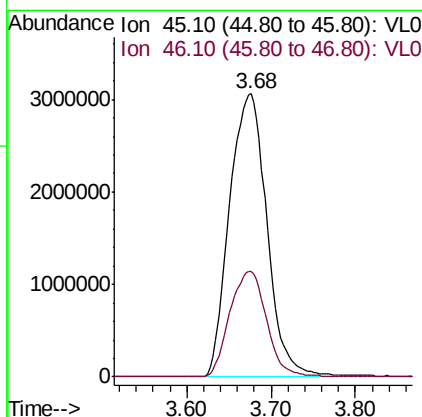
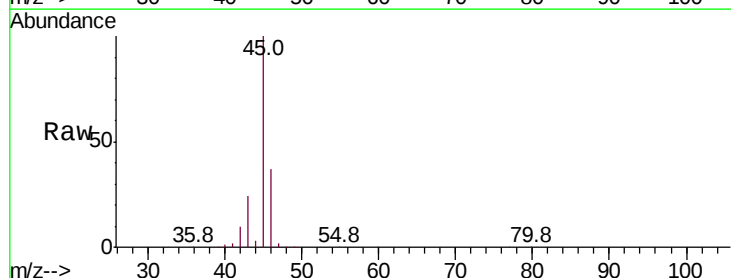
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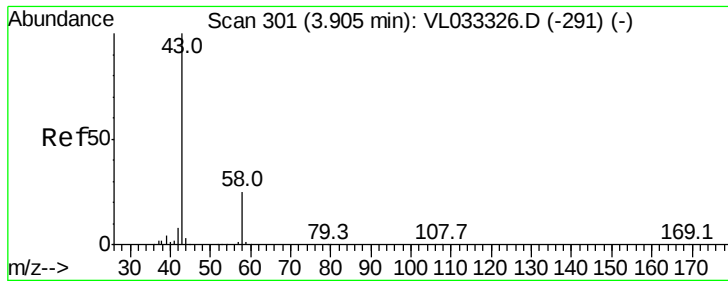
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#13
 Ethanol
 Concen: 538.815 ppbv
 RT: 3.68 min Scan# 230
 Delta R.T. 0.03 min
 Lab File: VL033370.D
 Acq: 18 Mar 2019 22:40

Tgt Ion: 45 Resp: 9442979
 Ion Ratio Lower Upper
 45 100
 46 37.0 14.9 59.7





#15

Acetone

Concen: 4.429 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.01 min

Lab File: VL033370.D

Acq: 18 Mar 2019 22:40

Instrument :

MSVOA_L

ClientSampleId :

L1HA-IA1

Tot Ion: 43 Resp: 494013

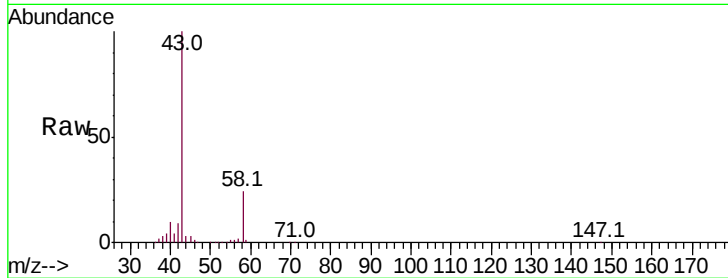
Ion Ratio Lower Upper

43 100

58 28.5 20.4 30.6

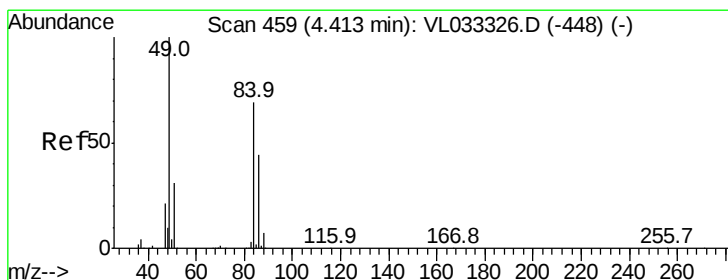
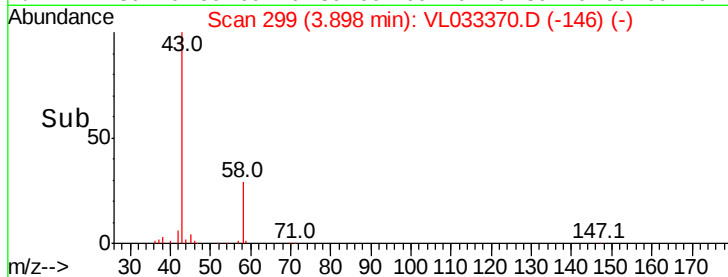
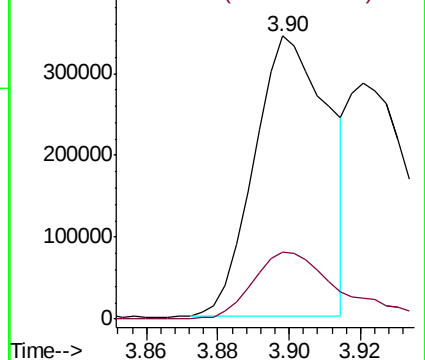
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 1.823 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.01 min

Lab File: VL033370.D

Acq: 18 Mar 2019 22:40

Tgt Ion: 84 Resp: 66328

Ion Ratio Lower Upper

84 100

49 157.8 115.4 173.0

51 46.2 35.8 53.6

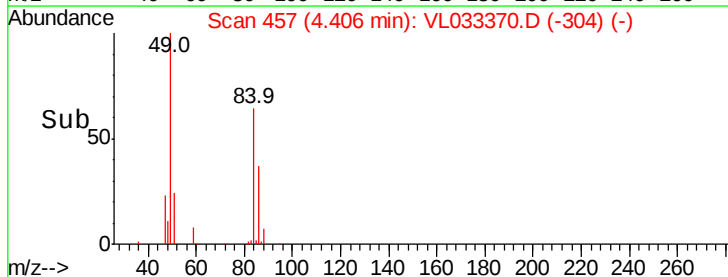
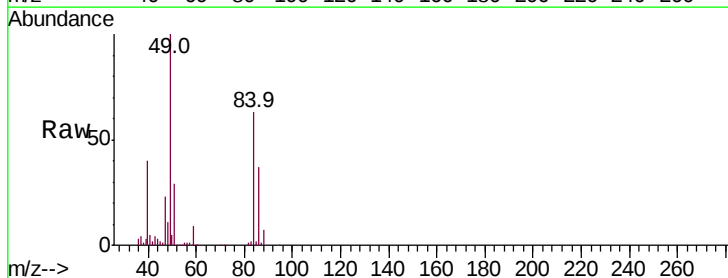
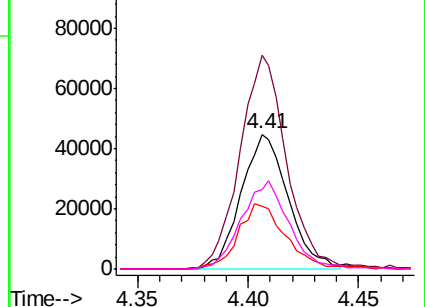
86 58.5 50.6 75.8

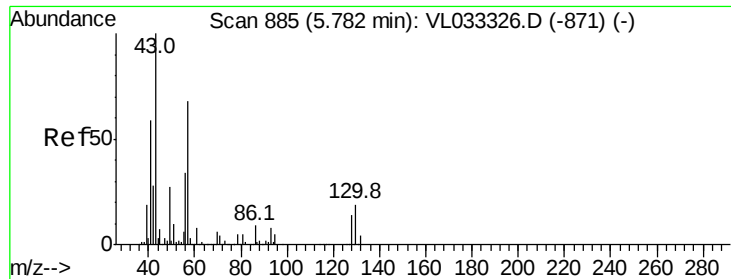
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





#26

Hexane

Concen: 1.065 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.01 min

Lab File: VL033370.D

Acq: 18 Mar 2019 22:40

Instrument :

MSVOA_L

ClientSampleId :

L1HA-IA1

Tot Ion: 57 Resp: 77178

Ion Ratio Lower Upper

57 100

41 100.0 70.5 105.7

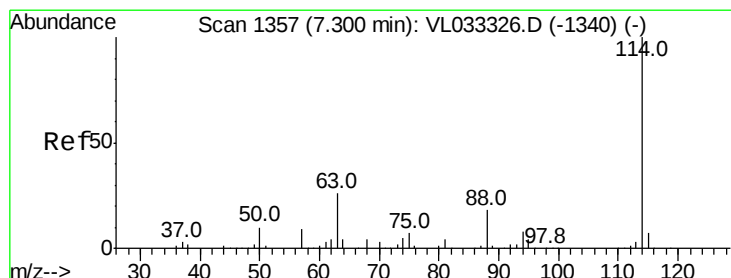
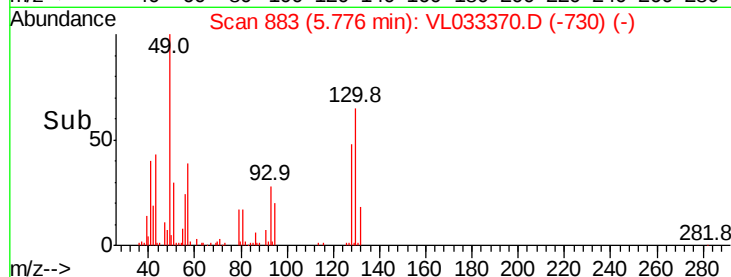
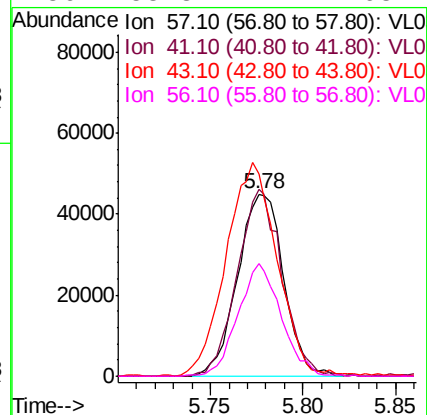
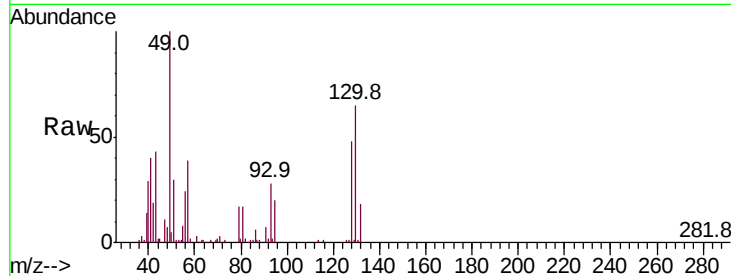
43 132.8 181.8 272.8#

56 58.3 42.2 63.2

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.01 min

Lab File: VL033370.D

Acq: 18 Mar 2019 22:40

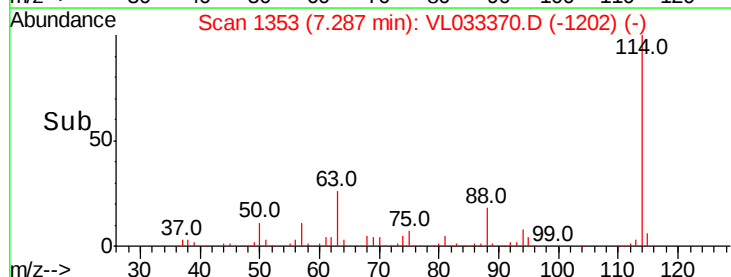
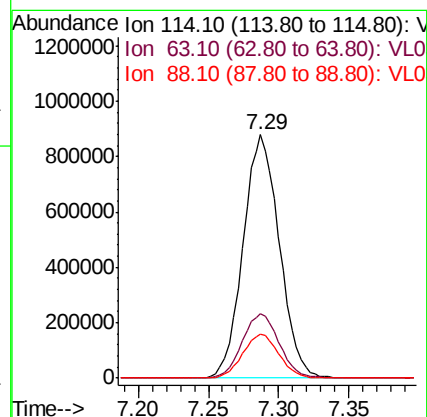
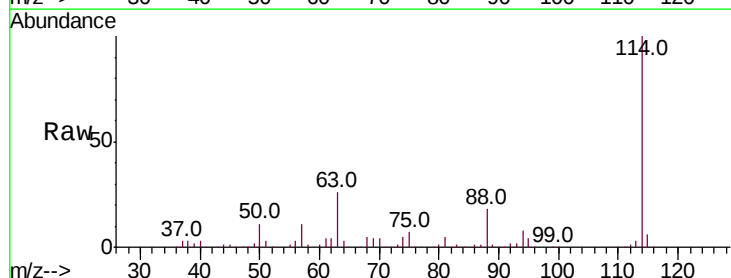
Tgt Ion: 114 Resp: 1582450

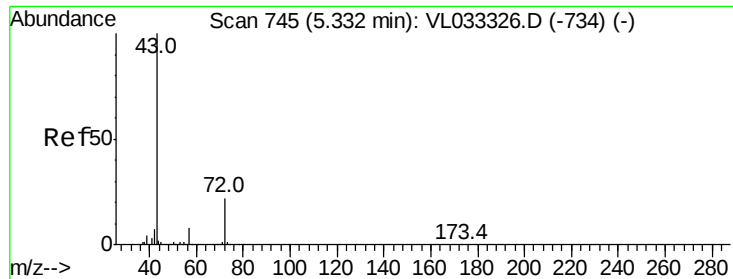
Ion Ratio Lower Upper

114 100

63 27.2 21.4 32.2

88 18.1 14.5 21.7





#34

2-Butanone

Concen: 0.396 ppbv

RT: 5.33 min Scan# 745

Delta R.T. -0.00 min

Lab File: VL033370.D

Acq: 18 Mar 2019 22:40

Instrument :

MSVOA_L

ClientSampled :

L1HA-IA1

Tot Ion: 43 Resp: 41185

Ion Ratio Lower Upper

43 100

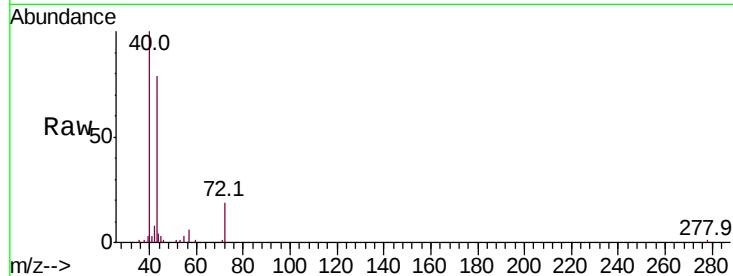
72 20.2 17.7 26.5

Manual Integrations

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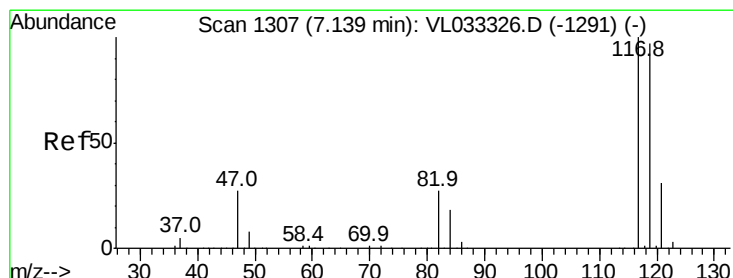
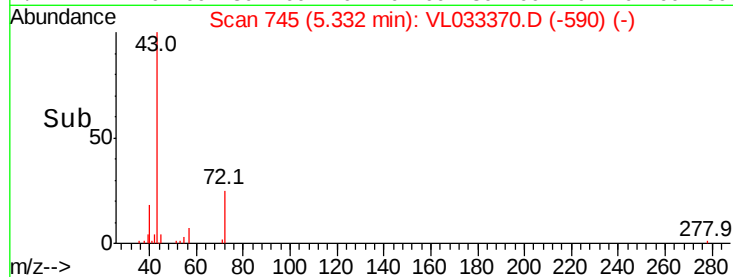
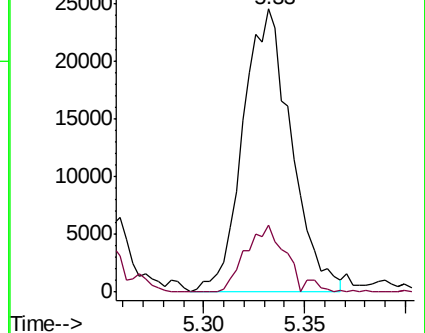
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.078 ppbv m

RT: 7.12 min Scan# 1302

Delta R.T. -0.02 min

Lab File: VL033370.D

Acq: 18 Mar 2019 22:40

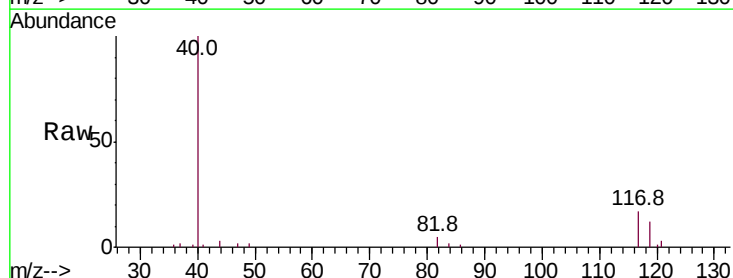
Tgt Ion: 117 Resp: 8701

Ion Ratio Lower Upper

117 100

119 69.2 77.4 116.0#

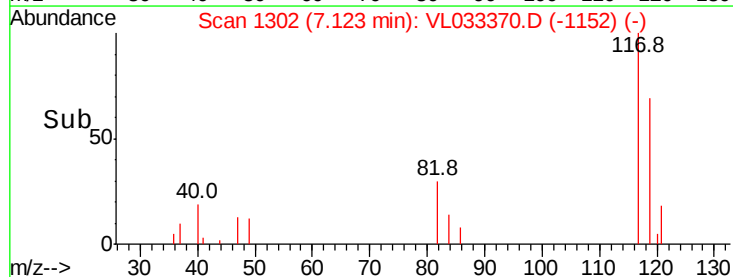
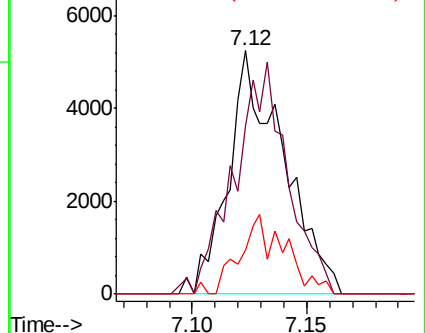
121 18.3 24.9 37.3#

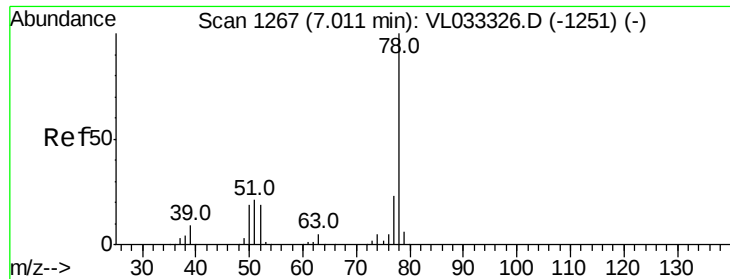


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





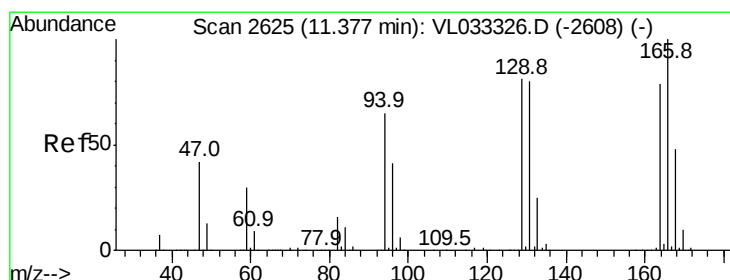
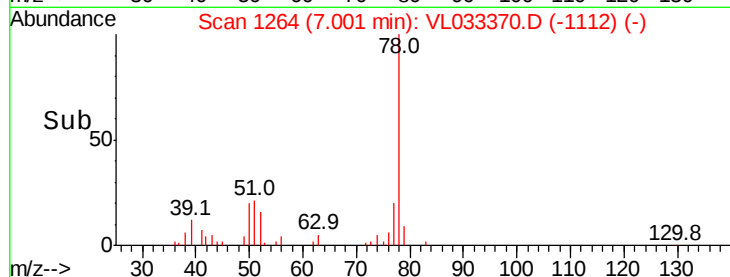
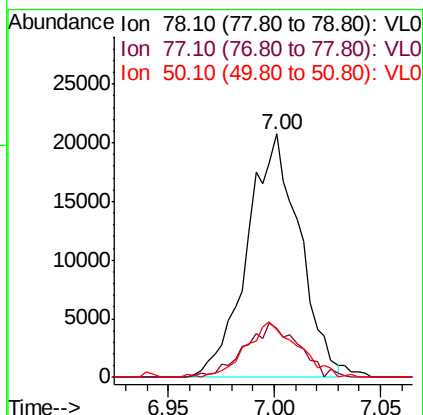
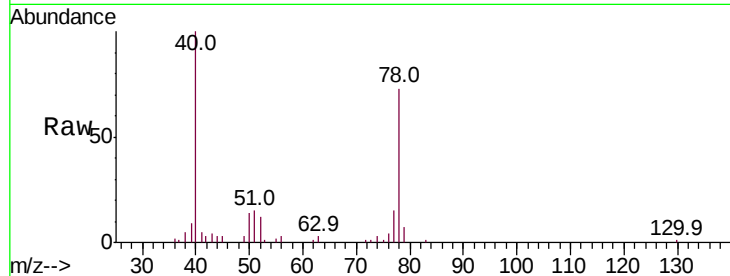
#36
Benzene
Concen: 0.250 ppbv m
RT: 7.00 min Scan# 1264
Delta R.T. -0.01 min
Lab File: VL033370.D
Acq: 18 Mar 2019 22:40

Instrument :
MSVOA_L
ClientSampled :
L1HA-IA1

Tot Ion	Ratio	Lower	Upper
78	100		
77	20.0	18.1	27.1
50	19.5	15.2	22.8

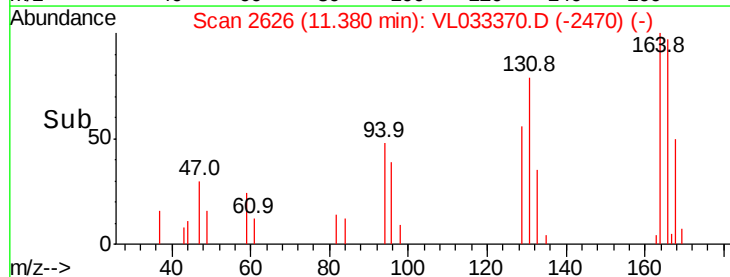
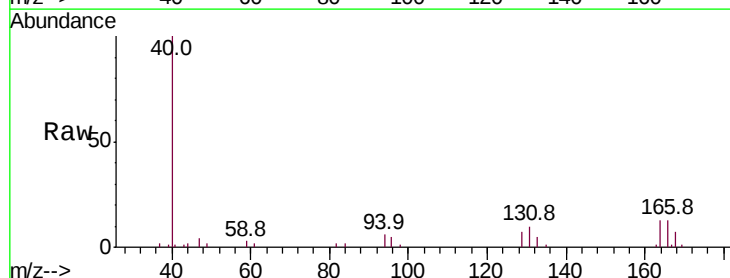
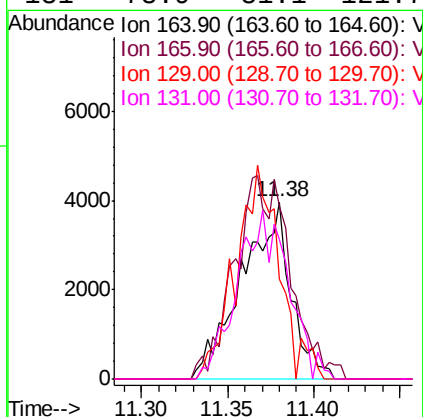
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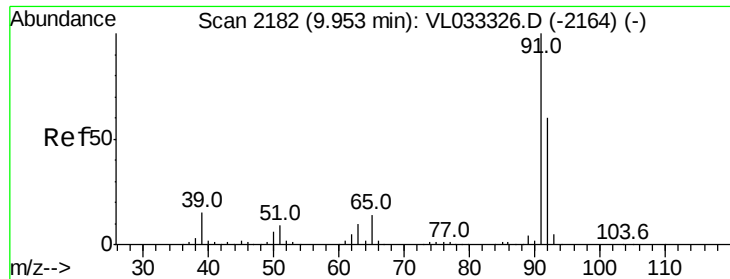
MMDadoda
3/21/2019 12:15:06 PM



#52
Tetrachloroethene
Concen: 0.133 ppbv m
RT: 11.38 min Scan# 2626
Delta R.T. 0.00 min
Lab File: VL033370.D
Acq: 18 Mar 2019 22:40

Tgt Ion	Ratio	Lower	Upper
164	100		
166	97.4	101.5	152.3#
129	56.2	82.2	123.2#
131	78.9	81.1	121.7#





#53

Toluene

Concen: 14.240 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.01 min

Lab File: VL033370.D

Acq: 18 Mar 2019 22:40

Instrument :

MSVOA_L

ClientSampleId :

L1HA-IA1

Tot Ion: 91 Resp: 2291474

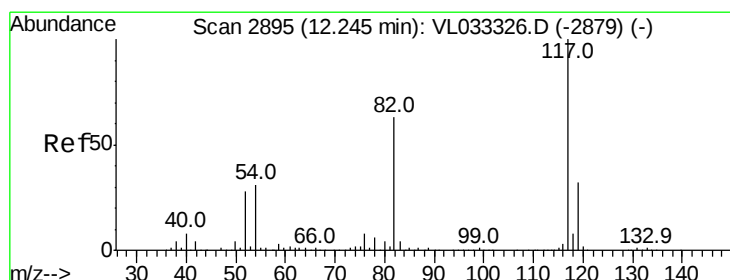
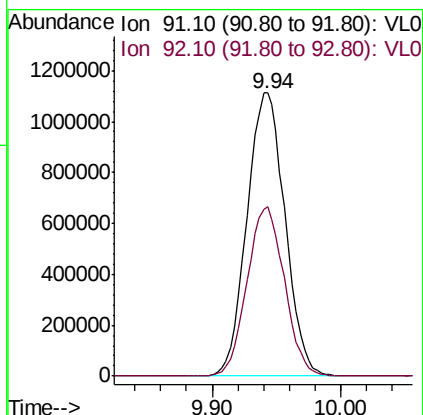
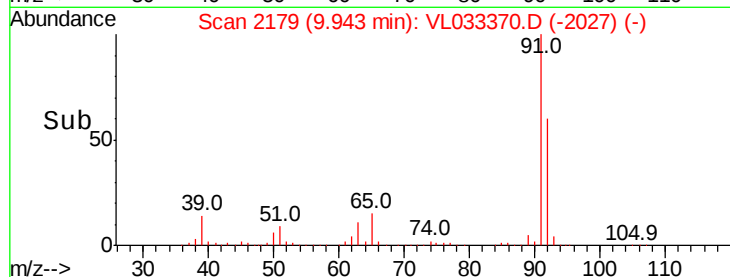
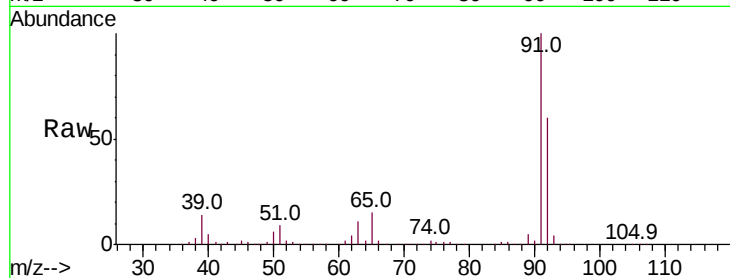
Ion Ratio Lower Upper

91 100

92 58.7 47.4 71.0

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL033370.D

Acq: 18 Mar 2019 22:40

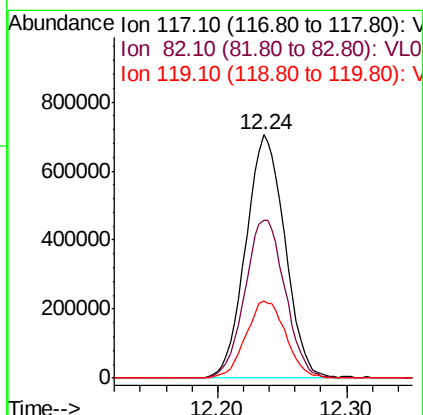
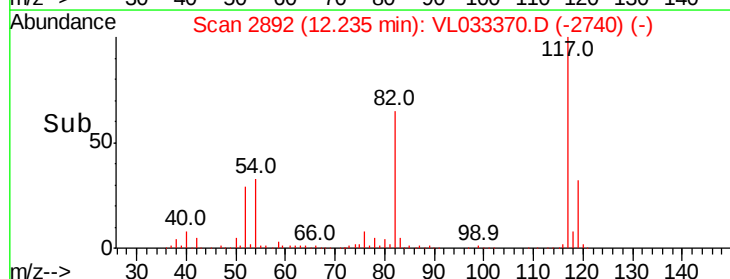
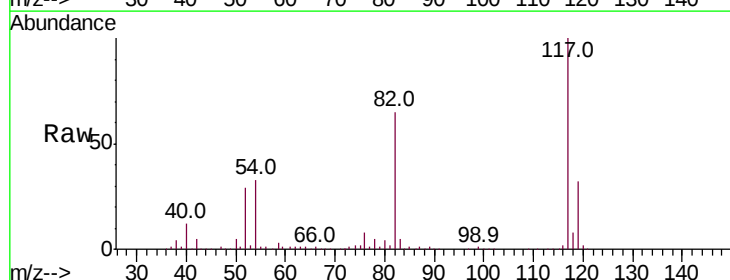
Tgt Ion: 117 Resp: 1488625

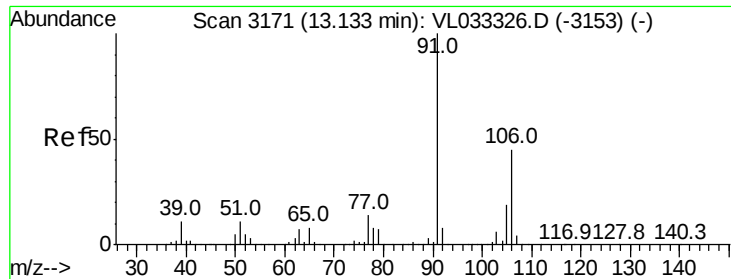
Ion Ratio Lower Upper

117 100

82 67.5 53.4 80.2

119 32.4 27.3 40.9





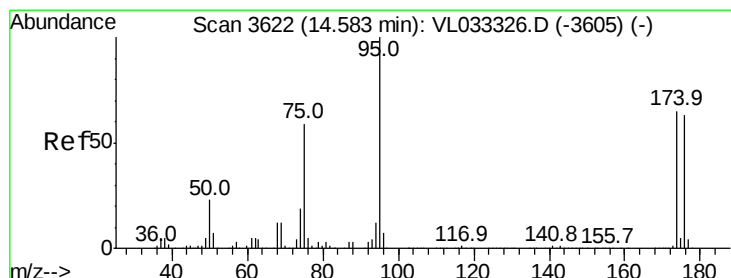
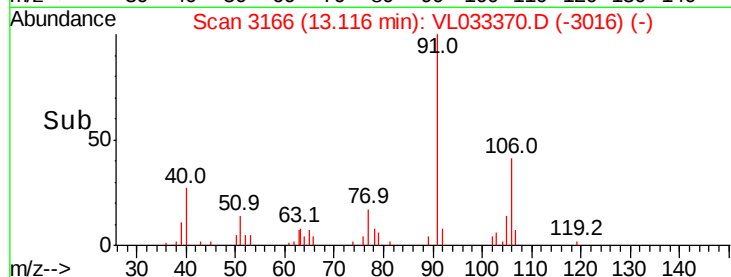
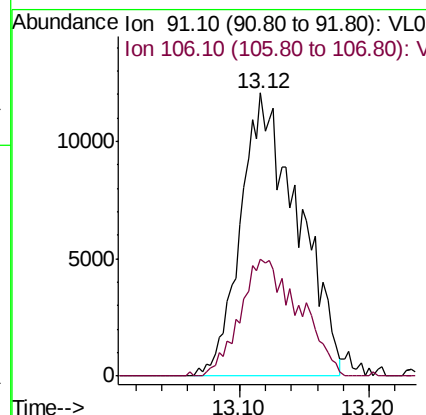
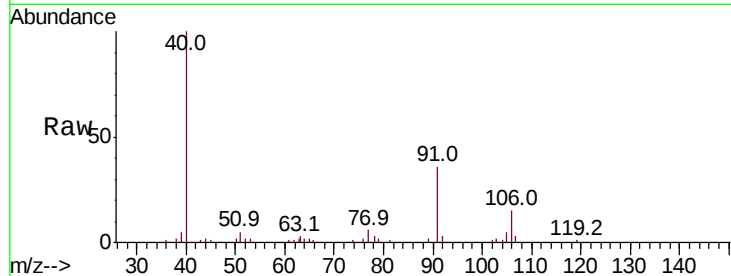
#59
m/p-Xylene
Concen: 0.205 ppbv m
RT: 13.12 min Scan# 3166
Delta R.T. -0.02 min
Lab File: VL033370.D
Acq: 18 Mar 2019 22:40

Instrument :
MSVOA_L
ClientSampled :
L1HA-IA1

Tot Ion: 91 Resp: 37147
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

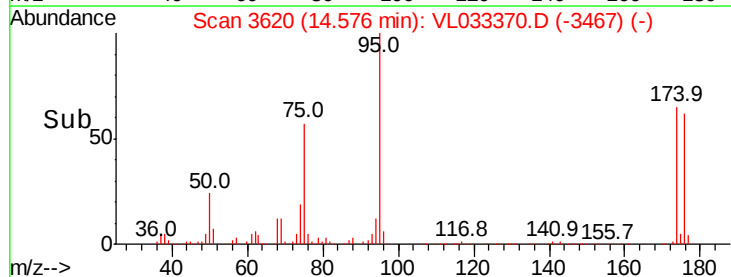
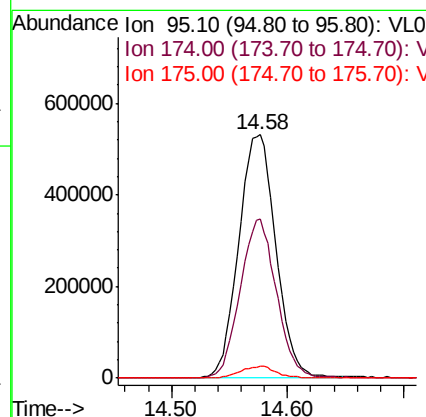
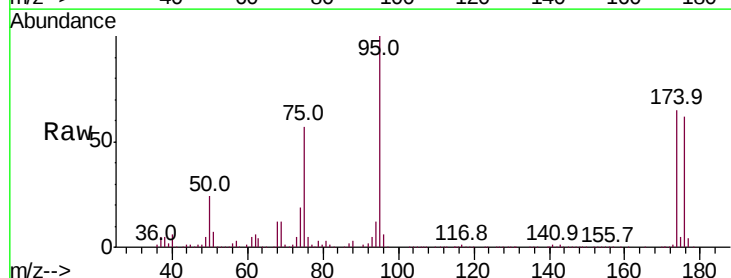
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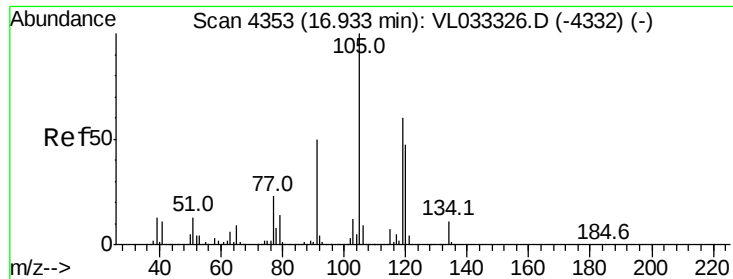
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.719 ppbv
RT: 14.58 min Scan# 3620
Delta R.T. -0.01 min
Lab File: VL033370.D
Acq: 18 Mar 2019 22:40

Tgt Ion: 95 Resp: 1182426
Ion Ratio Lower Upper
95 100
174 64.0 51.5 77.3
175 4.7 3.8 5.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.149 ppbv
 RT: 16.93 min Scan# 4351
 Delta R.T. -0.01 min
 Lab File: VL033370.D
 Acq: 18 Mar 2019 22:40

Instrument :
 MSVOA_L
 ClientSampleId :
 L1HA-IA1

Tot Ion:	105	Resp:	30731
Ion Ratio	Lower	Upper	
105	100		
120	37.4	37.4	56.2#
91	17.1	41.0	61.4#
77	20.5	18.5	27.7

Manual Integrations
 APPROVED

MMDadoda
 3/21/2019 12:15:06 PM

