

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031819\
 Data File : VL033375.D
 Acq On : 19 Mar 2019 1:58
 Operator : SY/AP
 Sample : K1952-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 L1HA-IA3

Manual Integrations
 APPROVED

MMDadoda
 3/21/2019 12:15:28 PM

Quant Time: Mar 20 11:11:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 1
 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	751222	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1663495	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.24	117	1597691	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1248376	10.54	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	71638	0.542	ppbv	94
3) Chlorodifluoromethane	3.01	51	30762m	0.357	ppbv	
4) Chloromethane	3.17	50	30558	0.654	ppbv #	84
9) Propene	3.05	41	57849m	1.503	ppbv	
10) Heptane	8.25	43	31554	0.331	ppbv	99
11) Trichlorofluoromethane	4.00	101	33585	0.255	ppbv	96
13) Ethanol	3.67	45	5701674	310.730	ppbv	99
15) Acetone	3.90	43	1448080m	12.400	ppbv	
20) Methylene Chloride	4.41	84	392576	10.308	ppbv	99
26) Hexane	5.78	57	215762	2.843	ppbv #	43
34) 2-Butanone	5.33	43	55722	0.510	ppbv	98
35) Carbon Tetrachloride	7.13	117	7739	0.066	ppbv	97
36) Benzene	7.00	78	31550m	0.212	ppbv	
52) Tetrachloroethene	11.37	164	7710m	0.124	ppbv	
53) Toluene	9.94	91	1529204	9.040	ppbv	100
59) m/p-Xylene	13.12	91	36300m	0.187	ppbv	
74) 1,2,4-Trimethylbenzene	16.92	105	27907	0.126	ppbv #	70

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

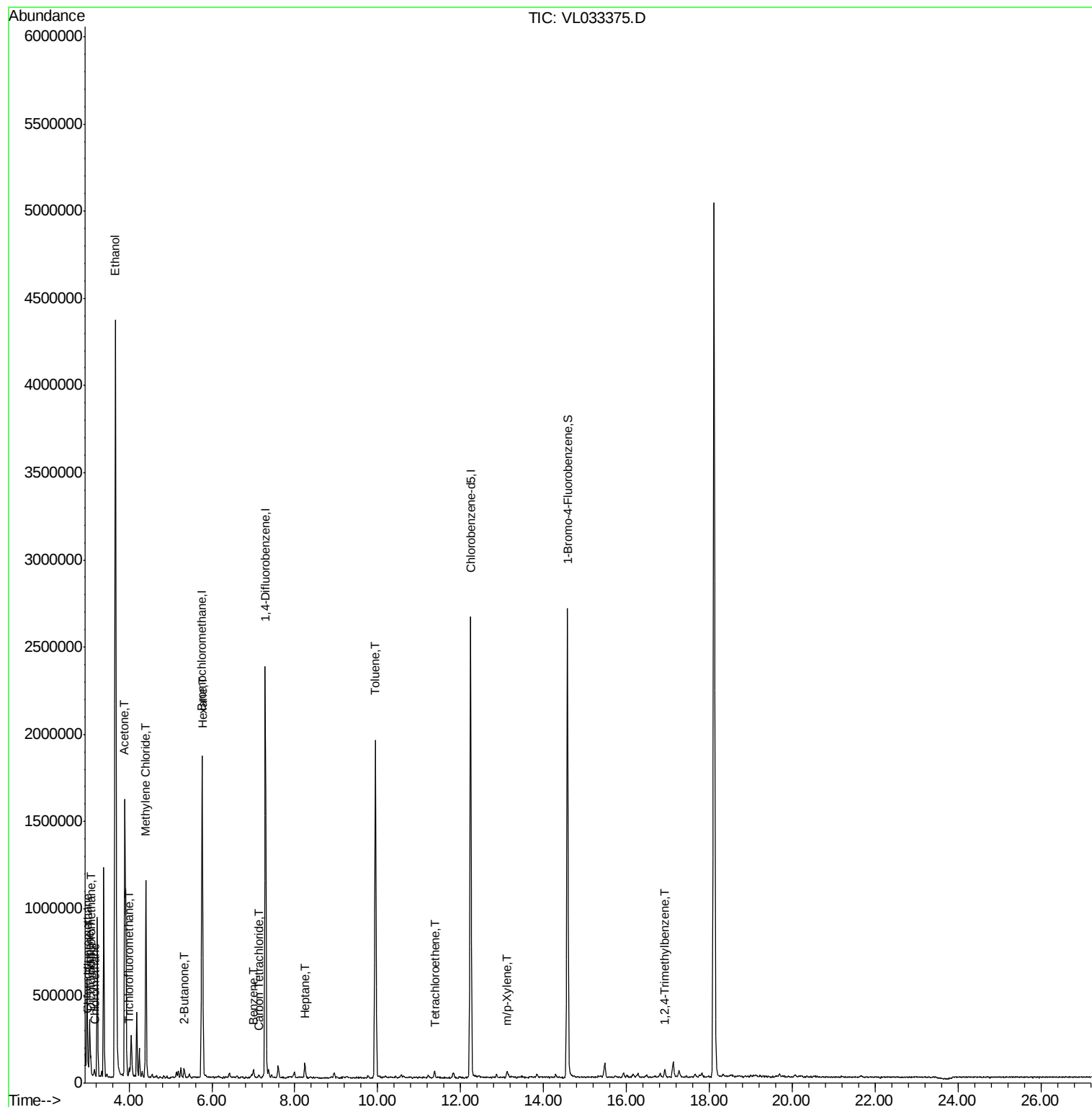
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL031819\
Data File : VL033375.D
Acq On : 19 Mar 2019 1:58
Operator : SY/AP
Sample : K1952-04
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

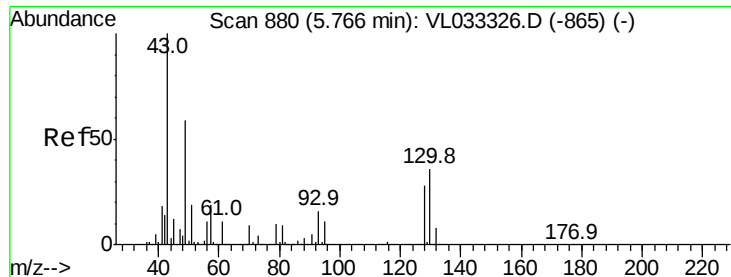
Instrument :
MSVOA_L
ClientSampleId :
L1HA-IA3

Manual Integrations
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3/21/2019 12:15:28 PM

Quant Time: Mar 20 11:11:52 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: VL033375.D

Acq: 19 Mar 2019 1:58

Instrument :

MSVOA_L

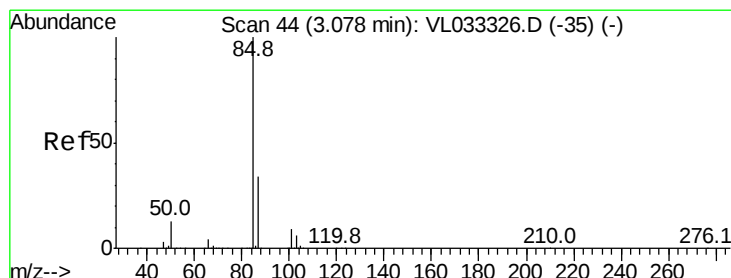
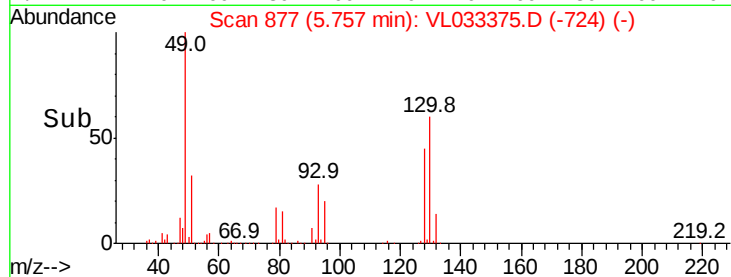
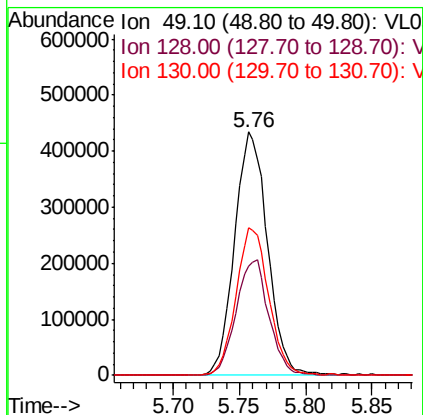
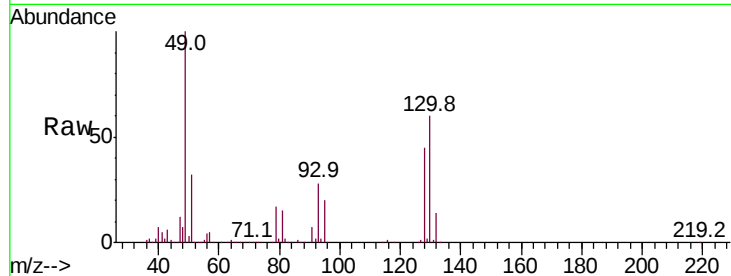
ClientSampled :

L1HA-IA3

Tot Ion:	49	Resp:	751222
Ion Ratio	Lower	Upper	
49	100		
128	47.3	23.5	70.6
130	60.4	30.1	90.3

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#2

Dichlorodifluoromethane

Concen: 0.542 ppbv

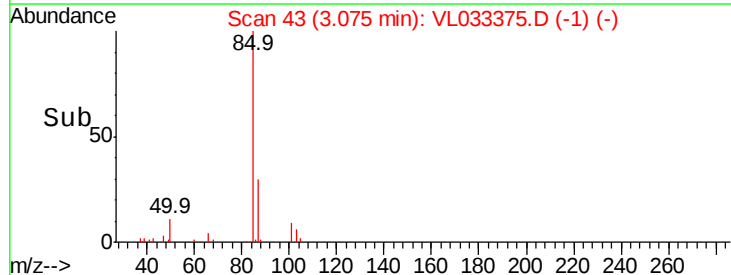
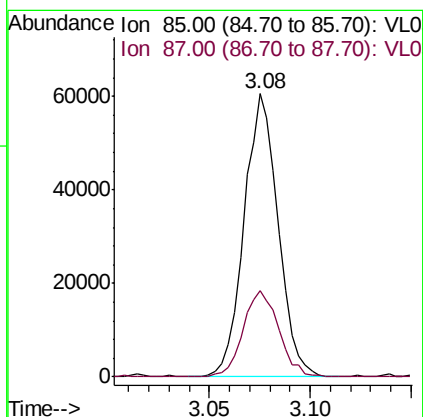
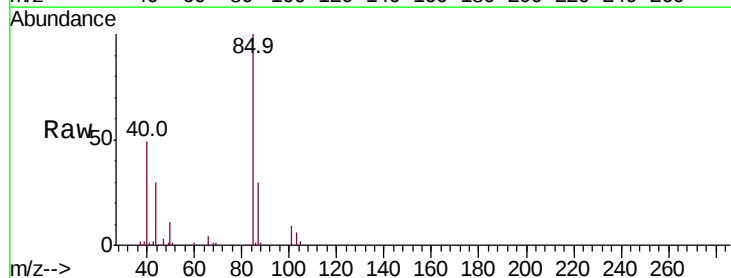
RT: 3.08 min Scan# 43

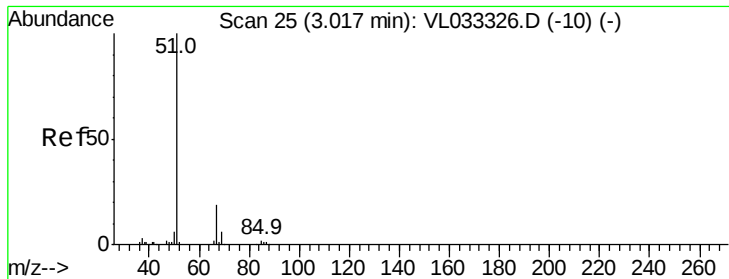
Delta R.T. -0.00 min

Lab File: VL033375.D

Acq: 19 Mar 2019 1:58

Tgt Ion:	85	Resp:	71638
Ion Ratio	Lower	Upper	
85	100		
87	30.4	26.9	40.3





#3

Chlorodifluoromethane

Concen: 0.357 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033375.D

Acq: 19 Mar 2019 1:58

Instrument :

MSVOA_L

ClientSampleId :

L1HA-IA3

Tot Ion: 51 Resp: 30762

Ion Ratio Lower Upper

51 100

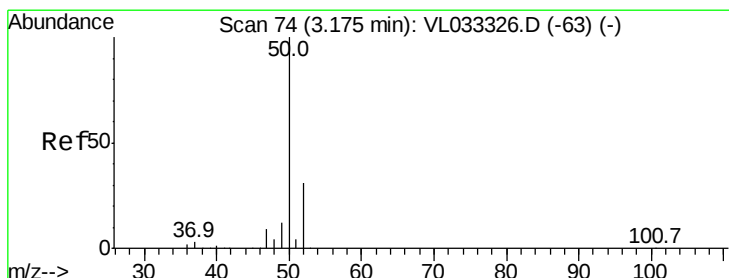
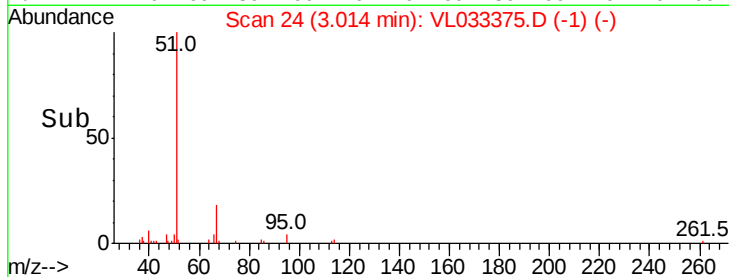
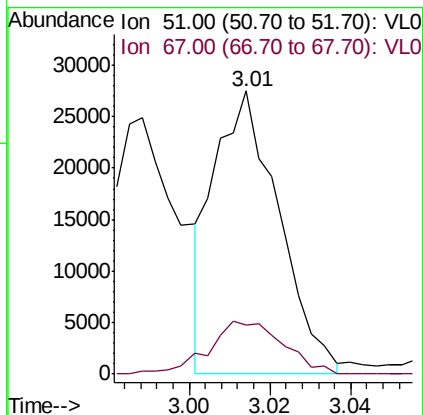
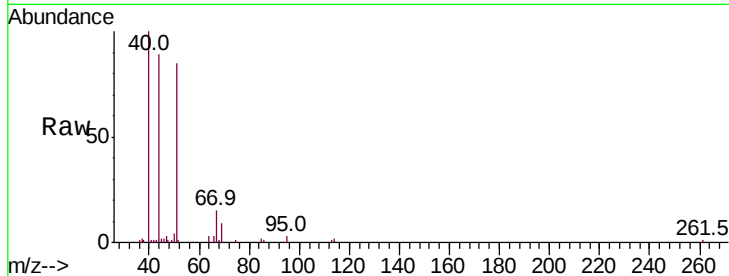
67 21.5 14.9 22.3

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#4

Chloromethane

Concen: 0.654 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL033375.D

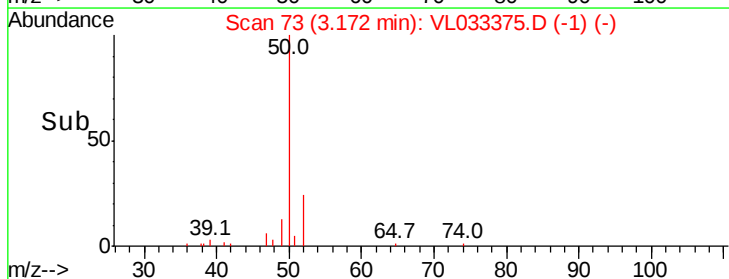
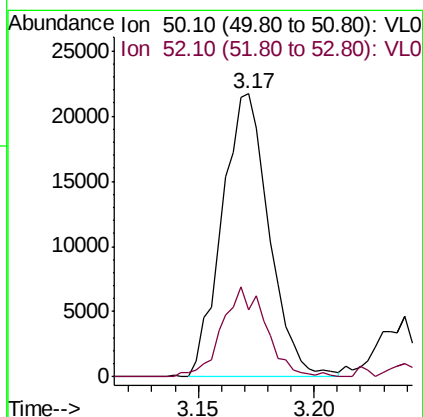
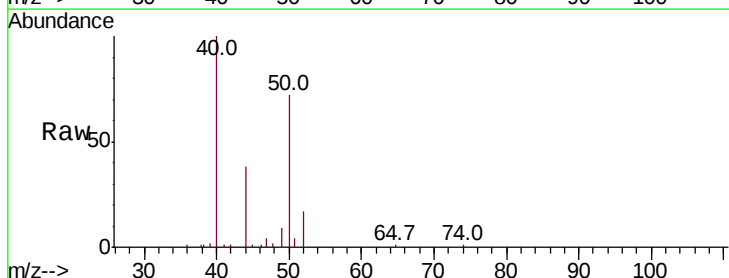
Acq: 19 Mar 2019 1:58

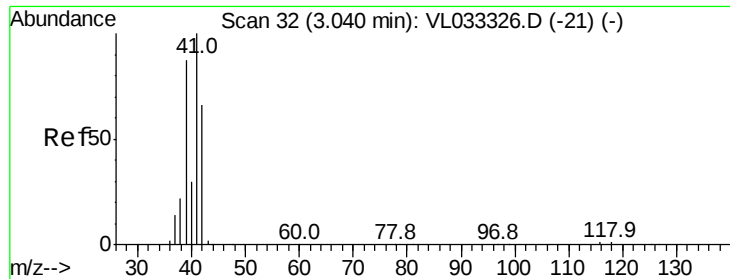
Tgt Ion: 50 Resp: 30558

Ion Ratio Lower Upper

50 100

52 22.6 25.0 37.6#





#9

Propene

Concen: 1.503 ppbv m

RT: 3.05 min Scan# 35

Delta R.T. 0.01 min

Lab File: VL033375.D

Acq: 19 Mar 2019 1:58

Instrument :

MSVOA_L

ClientSampleId :

L1HA-IA3

Tot Ion: 41 Resp: 57849

Ion Ratio Lower Upper

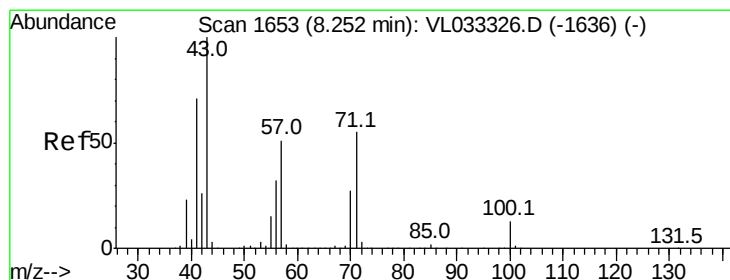
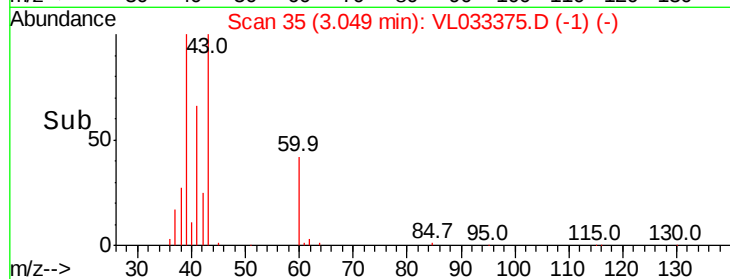
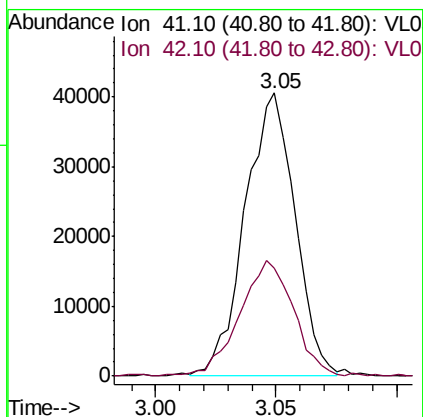
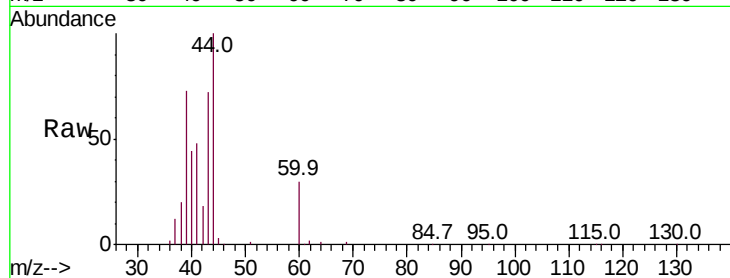
41 100

42 260.9 55.2 82.8#

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#10

Heptane

Concen: 0.331 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.01 min

Lab File: VL033375.D

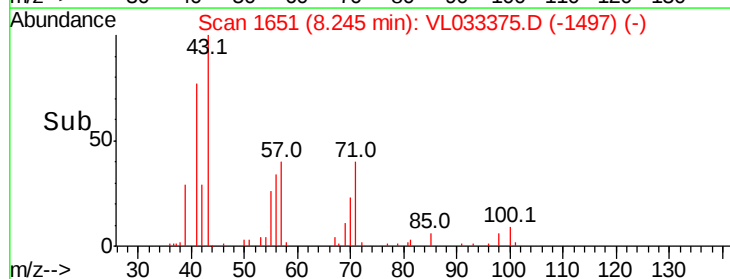
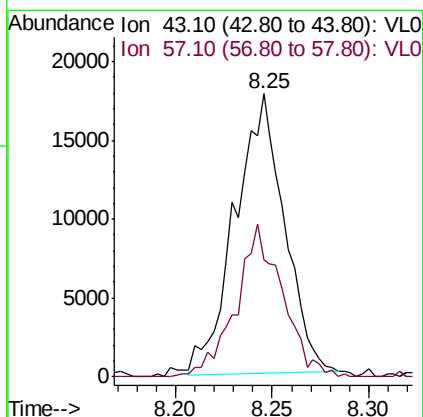
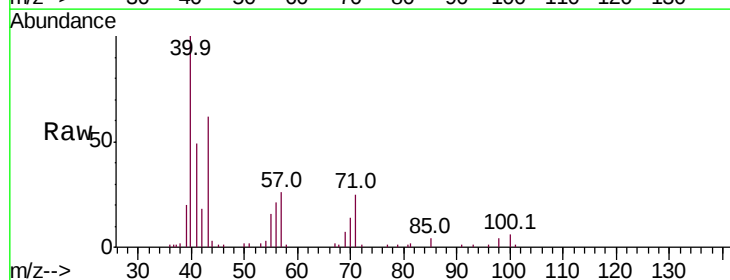
Acq: 19 Mar 2019 1:58

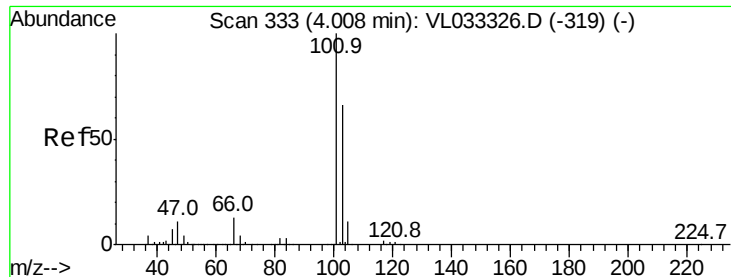
Tgt Ion: 43 Resp: 31554

Ion Ratio Lower Upper

43 100

57 50.9 40.4 60.6





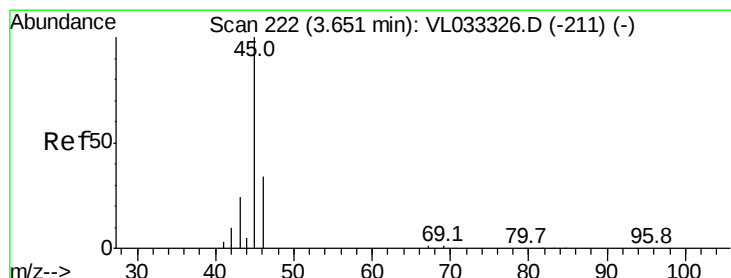
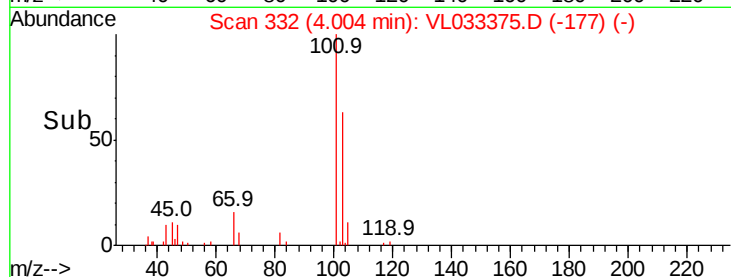
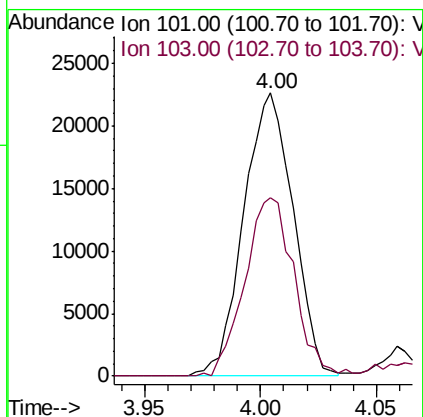
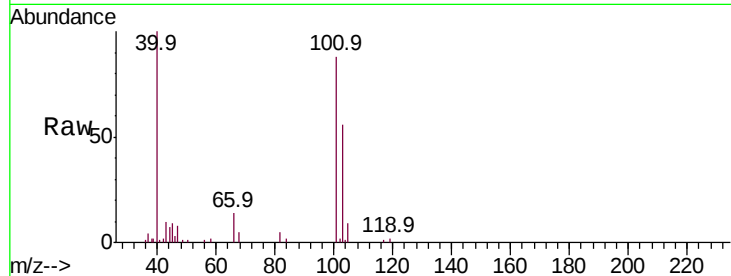
#11
Trichlorofluoromethane
Concen: 0.255 ppbv
RT: 4.00 min Scan# 332
Delta R.T. -0.00 min
Lab File: VL033375.D
Acq: 19 Mar 2019 1:58

Instrument :
MSVOA_L
ClientSampled :
L1HA-IA3

Tot Ion:101 Resp: 33585
Ion Ratio Lower Upper
101 100
103 63.3 52.9 79.3

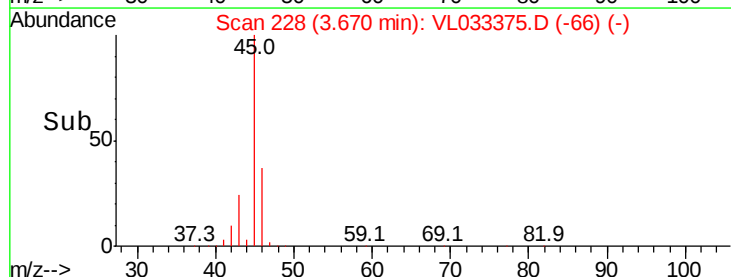
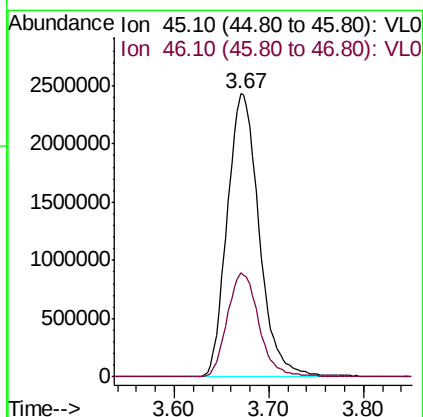
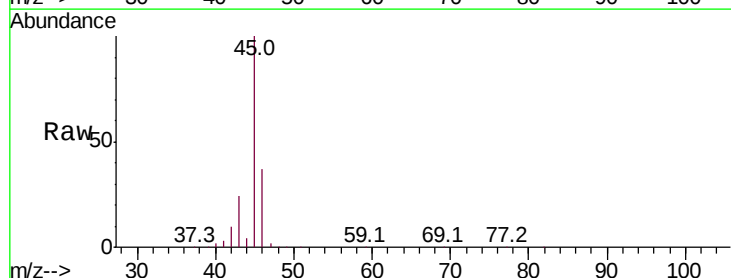
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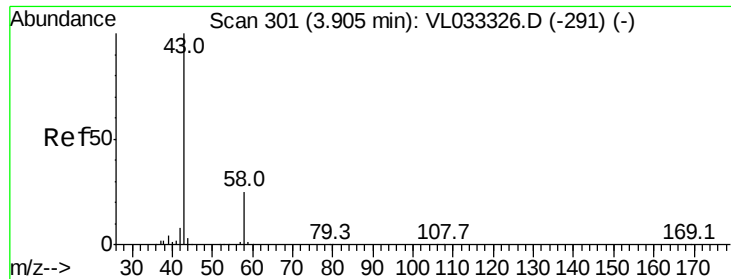
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#13
Ethanol
Concen: 310.730 ppbv
RT: 3.67 min Scan# 228
Delta R.T. 0.02 min
Lab File: VL033375.D
Acq: 19 Mar 2019 1:58

Tgt Ion: 45 Resp: 5701674
Ion Ratio Lower Upper
45 100
46 36.6 14.9 59.7





#15

Acetone

Concen: 12.400 ppbv m

RT: 3.90 min Scan# 298

Delta R.T. -0.01 min

Lab File: VL033375.D

Acq: 19 Mar 2019 1:58

Instrument :

MSVOA_L

ClientSampleId :

L1HA-IA3

Tot Ion: 43 Resp: 1448080

Ion Ratio Lower Upper

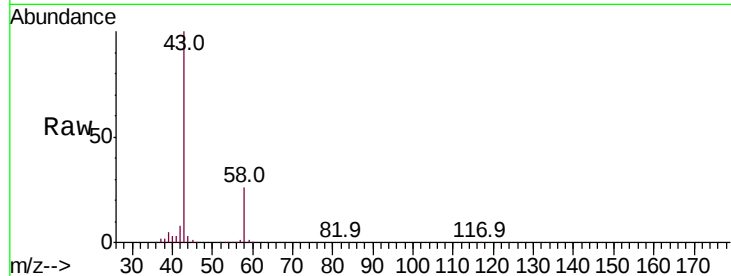
43 100

58 29.6 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

1200000

1000000

800000

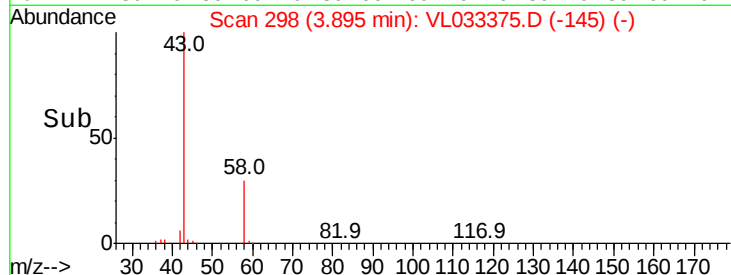
600000

400000

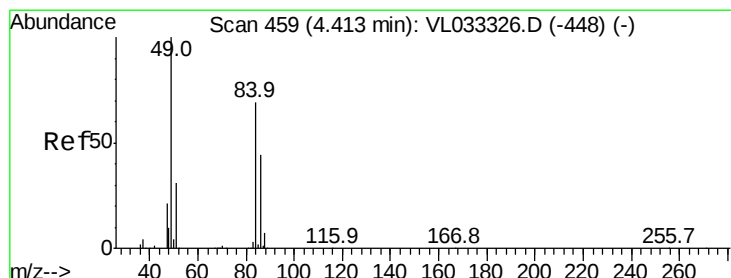
200000

0

Time-->



Time-->



#20

Methylene Chloride

Concen: 10.308 ppbv

RT: 4.41 min Scan# 458

Delta R.T. -0.00 min

Lab File: VL033375.D

Acq: 19 Mar 2019 1:58

Tgt Ion: 84 Resp: 392576

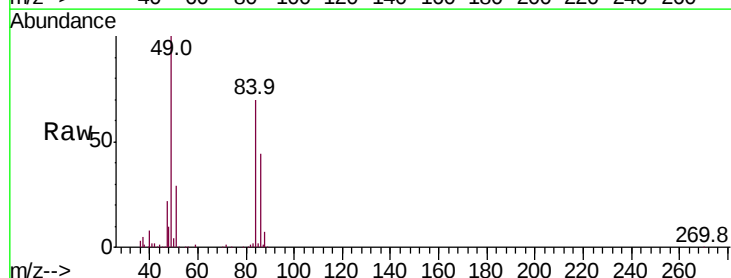
Ion Ratio Lower Upper

84 100

49 143.3 115.4 173.0

51 42.0 35.8 53.6

86 62.9 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

500000

400000

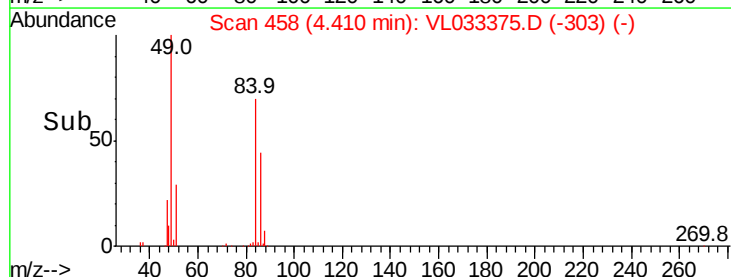
300000

200000

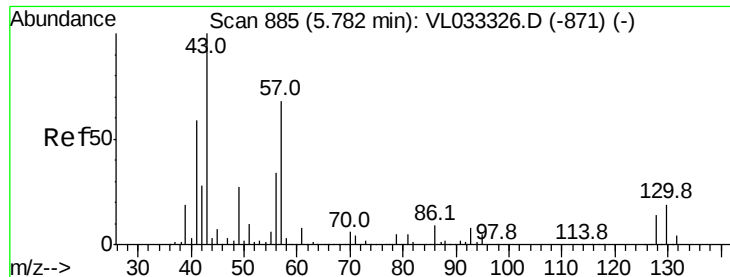
100000

0

Time-->



Time-->



#26

Hexane

Concen: 2.843 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.01 min

Lab File: VL033375.D

Acq: 19 Mar 2019 1:58

Instrument :

MSVOA_L

ClientSampleId :

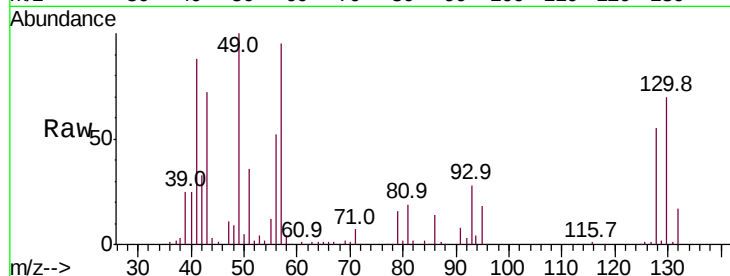
L1HA-IA3

Tot Ion: 57 Resp: 215762

Ion	Ratio	Lower	Upper
57	100		
41	93.6	70.5	105.7
43	79.8	181.8	272.8#
56	54.9	42.2	63.2

Manual Integrations
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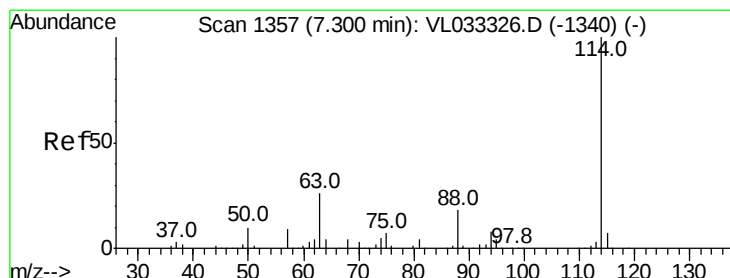
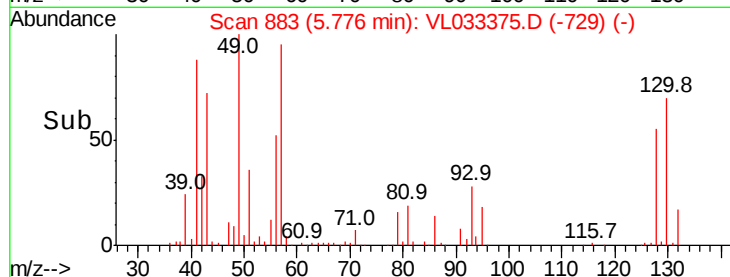
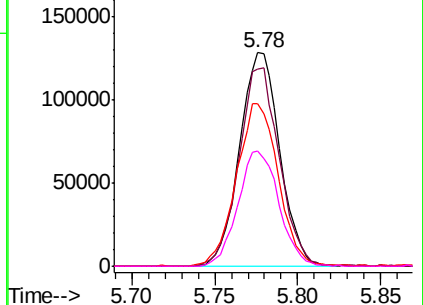
Abundance

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: 7.29 min Scan# 1353

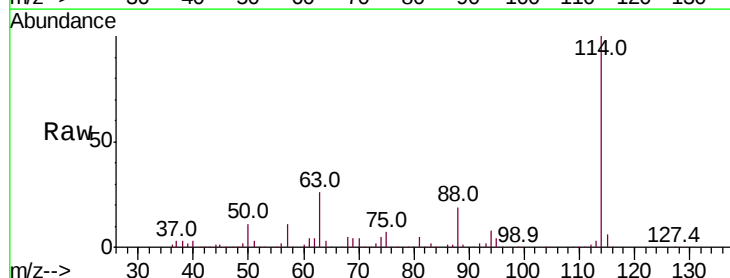
Delta R.T. -0.01 min

Lab File: VL033375.D

Acq: 19 Mar 2019 1:58

Tgt Ion: 114 Resp: 1663495

Ion	Ratio	Lower	Upper
114	100		
63	26.5	21.4	32.2
88	18.4	14.5	21.7

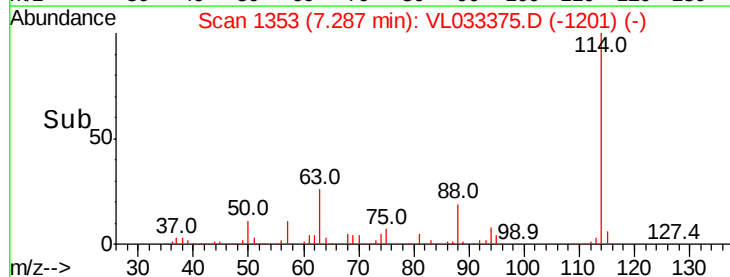
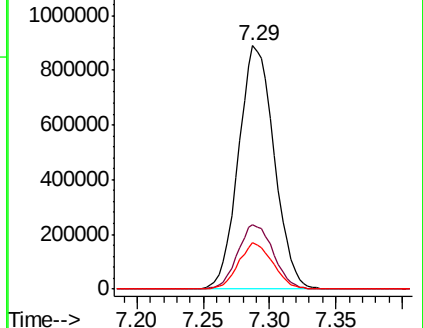


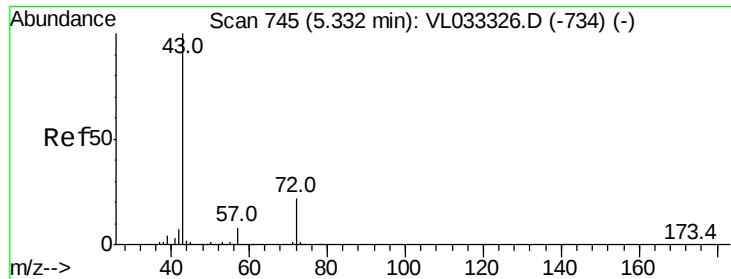
Abundance

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





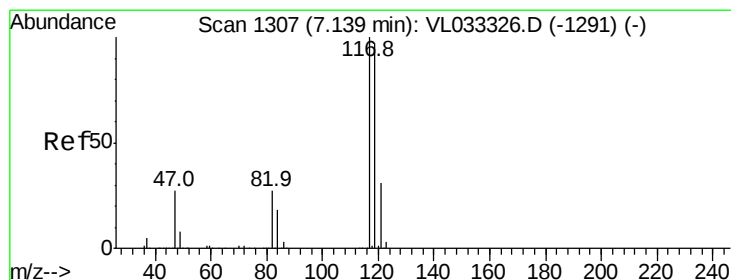
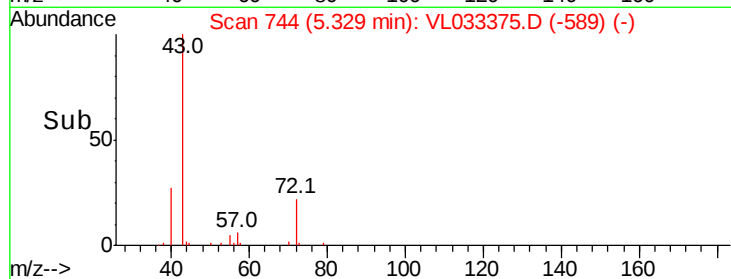
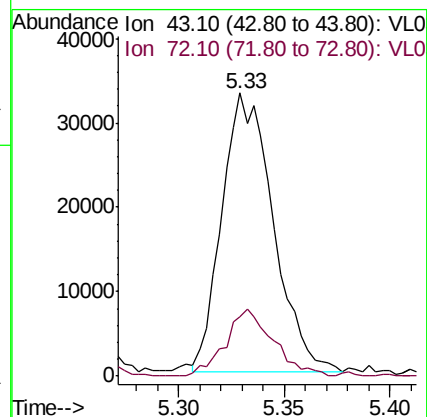
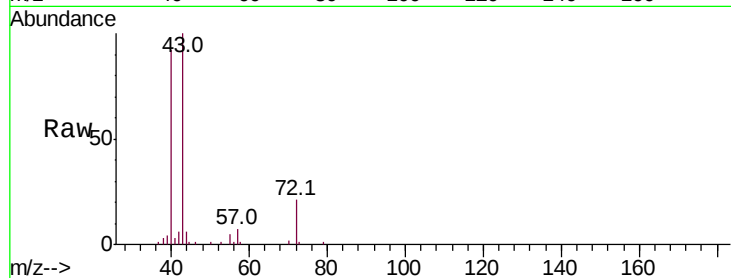
#34
2-Butanone
Concen: 0.510 ppbv
RT: 5.33 min Scan# 744
Delta R.T. -0.00 min
Lab File: VL033375.D
Acq: 19 Mar 2019 1:58

Instrument :
MSVOA_L
ClientSampleId :
L1HA-IA3

Tot Ion	43	Ratio	72	Resp	55722	Lower	Upper
43	100						
72	23.0					17.7	26.5

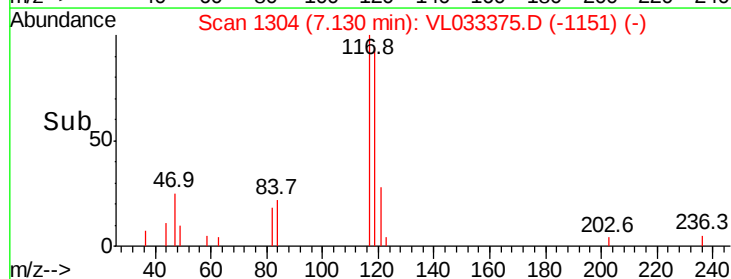
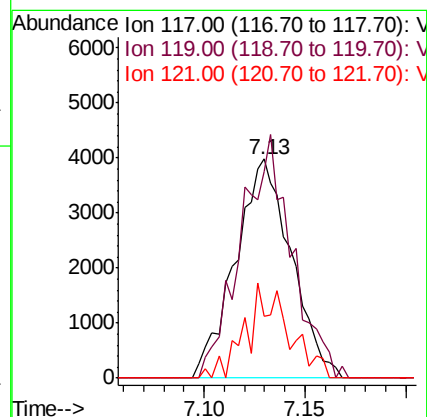
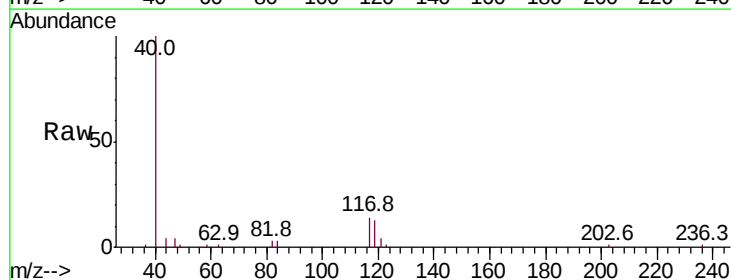
Manual Integrations
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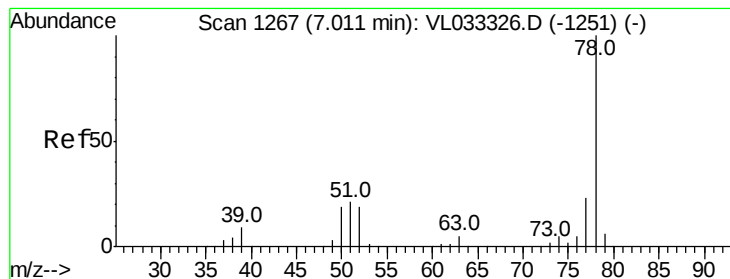
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#35
Carbon Tetrachloride
Concen: 0.066 ppbv
RT: 7.13 min Scan# 1304
Delta R.T. -0.01 min
Lab File: VL033375.D
Acq: 19 Mar 2019 1:58

Tgt Ion	117	Ratio	119	121	Resp	7739	Lower	Upper
117	100							
119	94.1						77.4	116.0
121	28.1						24.9	37.3





#36

Benzene

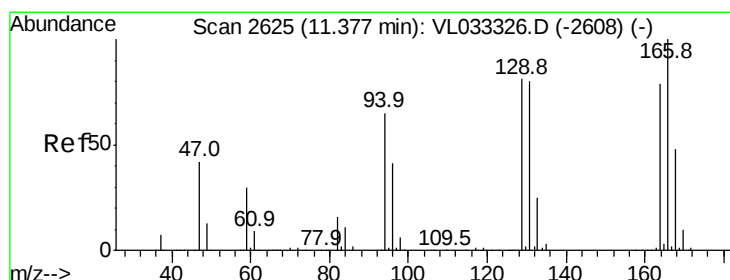
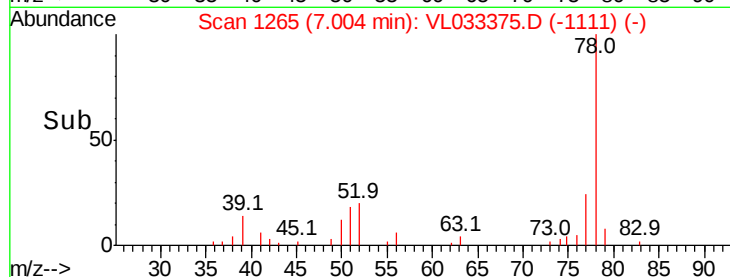
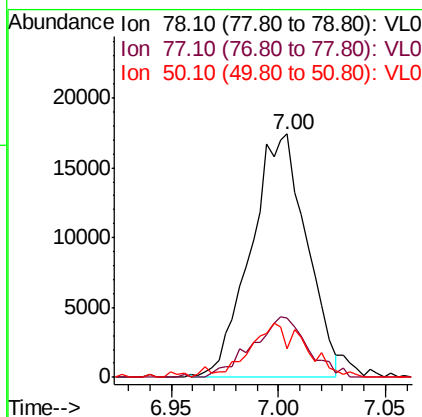
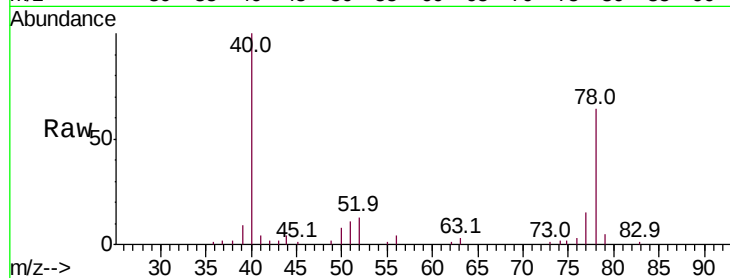
Concen: 0.212 ppbv m
 RT: 7.00 min Scan# 1265
 Delta R.T. -0.01 min
 Lab File: VL033375.D
 Acq: 19 Mar 2019 1:58

Instrument :
 MSVOA_L
 ClientSampleId :
 L1HA-IA3

Tot Ion	Ratio	Lower	Upper
78	100		
77	24.3	18.1	27.1
50	11.9	15.2	22.8#

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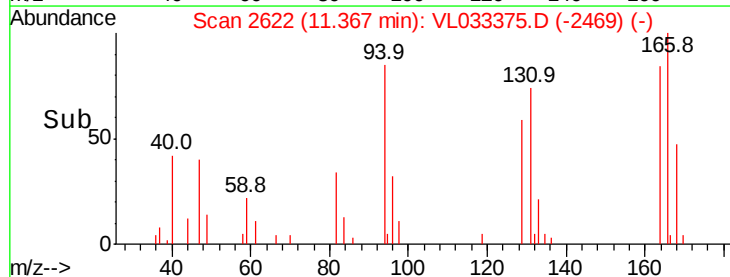
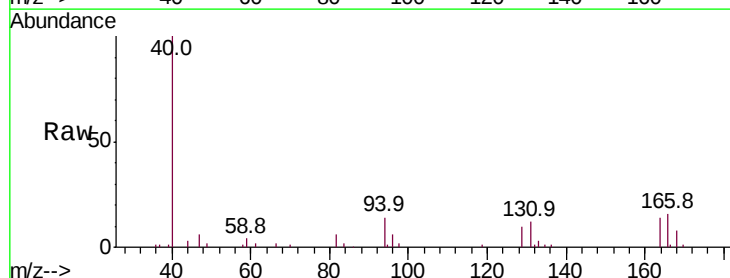
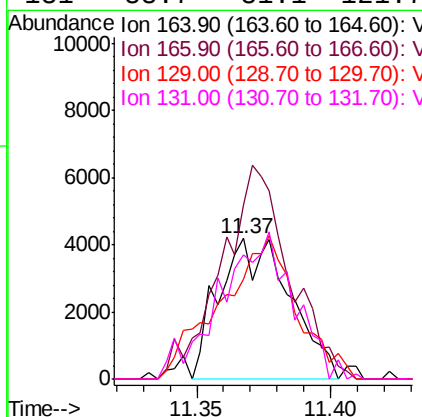


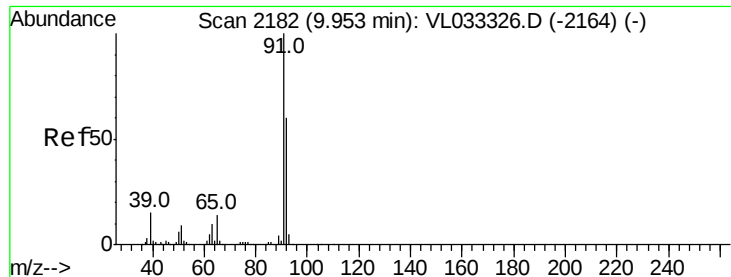
#52

Tetrachloroethene

Concen: 0.124 ppbv m
 RT: 11.37 min Scan# 2622
 Delta R.T. -0.01 min
 Lab File: VL033375.D
 Acq: 19 Mar 2019 1:58

Tgt Ion	Ratio	Lower	Upper
164	100		
166	119.7	101.5	152.3
129	70.9	82.2	123.2#
131	88.7	81.1	121.7





#53

Toluene

Concen: 9.040 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.01 min

Lab File: VL033375.D

Acq: 19 Mar 2019 1:58

Instrument :

MSVOA_L

ClientSampleId :

L1HA-IA3

Tot Ion: 91 Resp: 1529204

Ion Ratio Lower Upper

91 100

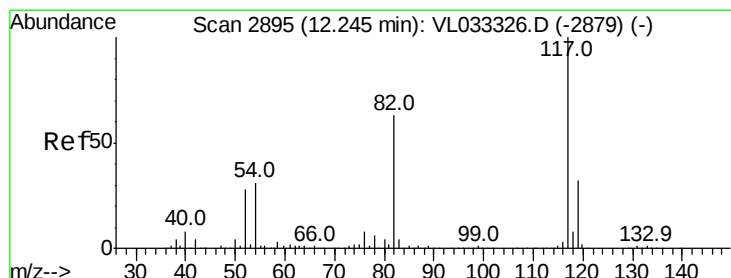
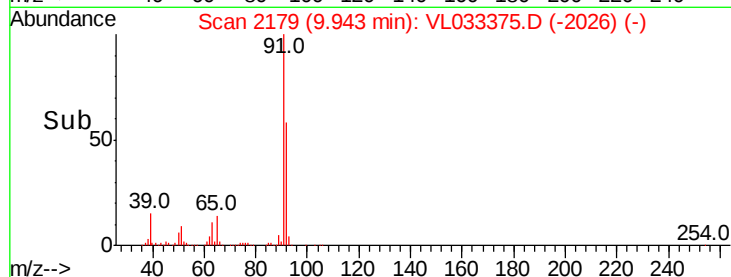
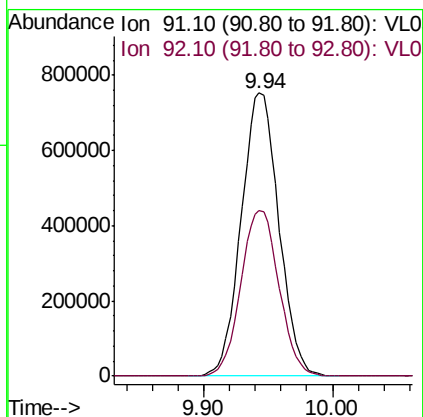
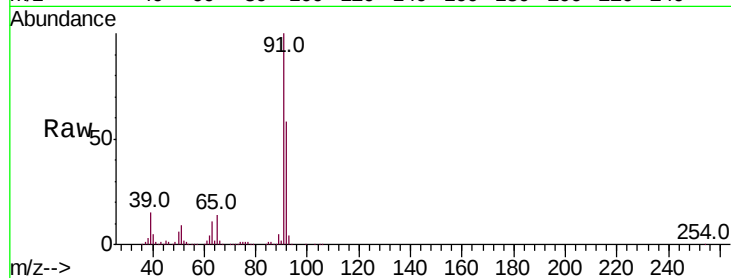
92 59.6 47.4 71.0

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL033375.D

Acq: 19 Mar 2019 1:58

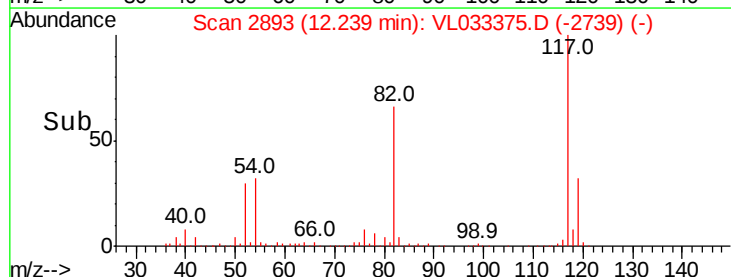
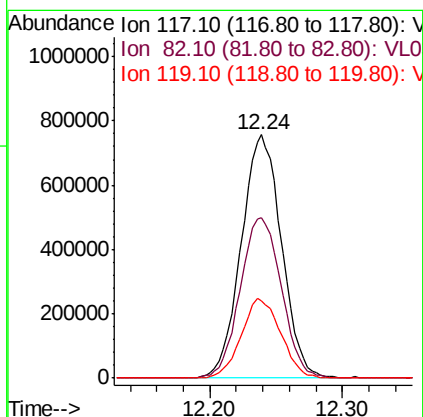
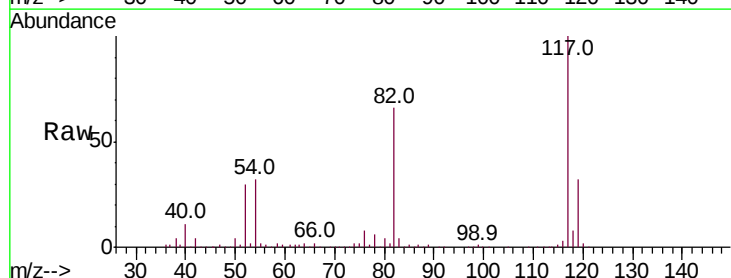
Tgt Ion: 117 Resp: 1597691

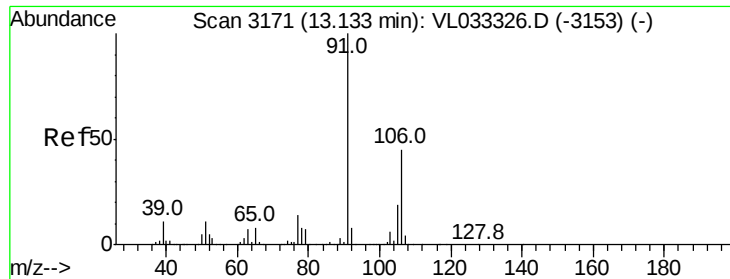
Ion Ratio Lower Upper

117 100

82 68.1 53.4 80.2

119 32.4 27.3 40.9





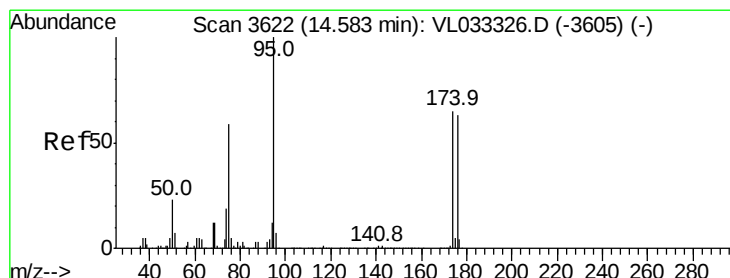
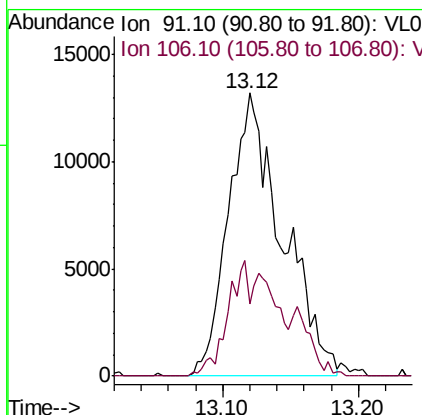
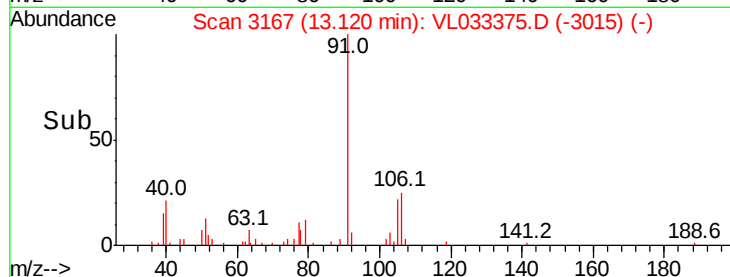
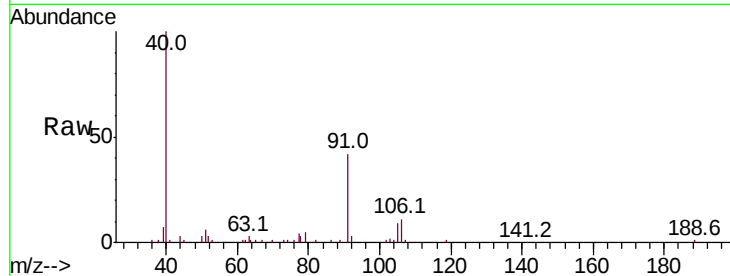
#59
m/p-Xylene
Concen: 0.187 ppbv m
RT: 13.12 min Scan# 3167
Delta R.T. -0.01 min
Lab File: VL033375.D
Acq: 19 Mar 2019 1:58

Instrument :
MSVOA_L
ClientSampleId :
L1HA-IA3

Tot Ion: 91 Resp: 36300
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

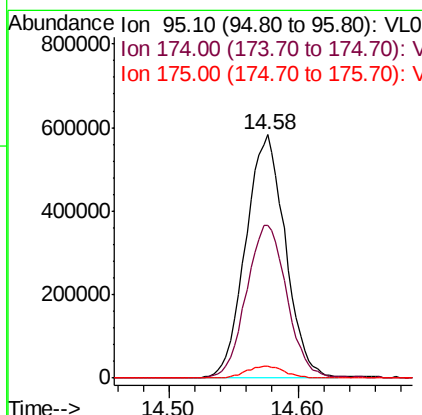
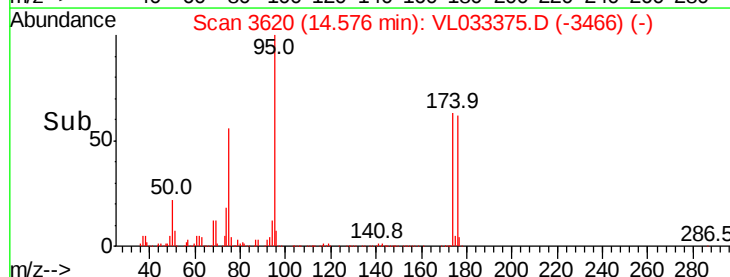
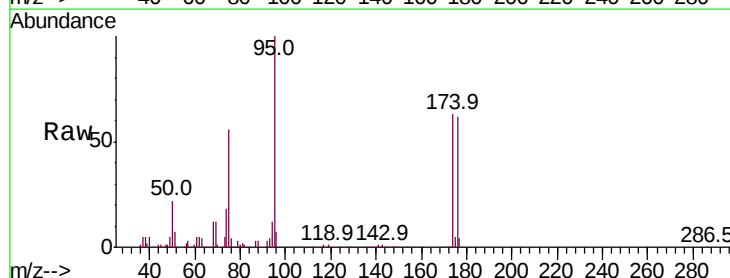
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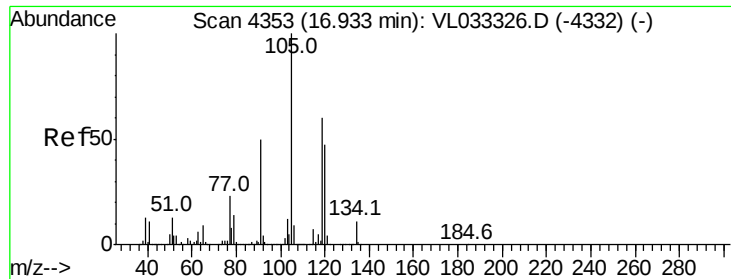
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.545 ppbv
RT: 14.58 min Scan# 3620
Delta R.T. -0.01 min
Lab File: VL033375.D
Acq: 19 Mar 2019 1:58

Tgt Ion: 95 Resp: 1248376
Ion Ratio Lower Upper
95 100
174 64.7 51.5 77.3
175 4.8 3.8 5.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.126 ppbv
 RT: 16.92 min Scan# 4350
 Delta R.T. -0.01 min
 Lab File: VL033375.D
 Acq: 19 Mar 2019 1:58

Instrument :
 MSVOA_L
 ClientSampleId :
 L1HA-IA3

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	49.8	37.4	56.2
91	12.8	41.0	61.4#
77	10.2	18.5	27.7#

Manual Integrations
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