

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032719\
 Data File : VL033487.D
 Acq On : 28 Mar 2019 3:33
 Operator : SY/AP
 Sample : K1991-05
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VMP-3

Manual Integrations
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 4/1/2019 1:26:05 AM

Quant Time: Mar 28 09:42:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 28 09:42:00 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	689429	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1638284	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	1761203	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1401328	10.15	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	33573	0.334	ppbv	95
3) Chlorodifluoromethane	3.01	51	17412m	0.219	ppbv	
9) Propene	3.04	41	12385	0.372	ppbv #	80
11) Trichlorofluoromethane	4.00	101	37590	0.303	ppbv	97
13) Ethanol	3.64	45	66566	7.717	ppbv	65
15) Acetone	3.90	43	263950	3.184	ppbv #	89
20) Methylene Chloride	4.40	84	38782	1.102	ppbv	84
26) Hexane	5.77	57	47793	0.699	ppbv #	65
32) 1,1,1-Trichloroethane	6.61	97	26187	0.235	ppbv	91
34) 2-Butanone	5.33	43	26673m	0.271	ppbv	
35) Carbon Tetrachloride	7.13	117	7598m	0.065	ppbv	
53) Toluene	9.94	91	353517	2.213	ppbv	99
59) m/p-Xylene	13.13	91	24103m	0.115	ppbv	
76) 1,4-Dichlorobenzene	17.30	146	61314m	0.435	ppbv	

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

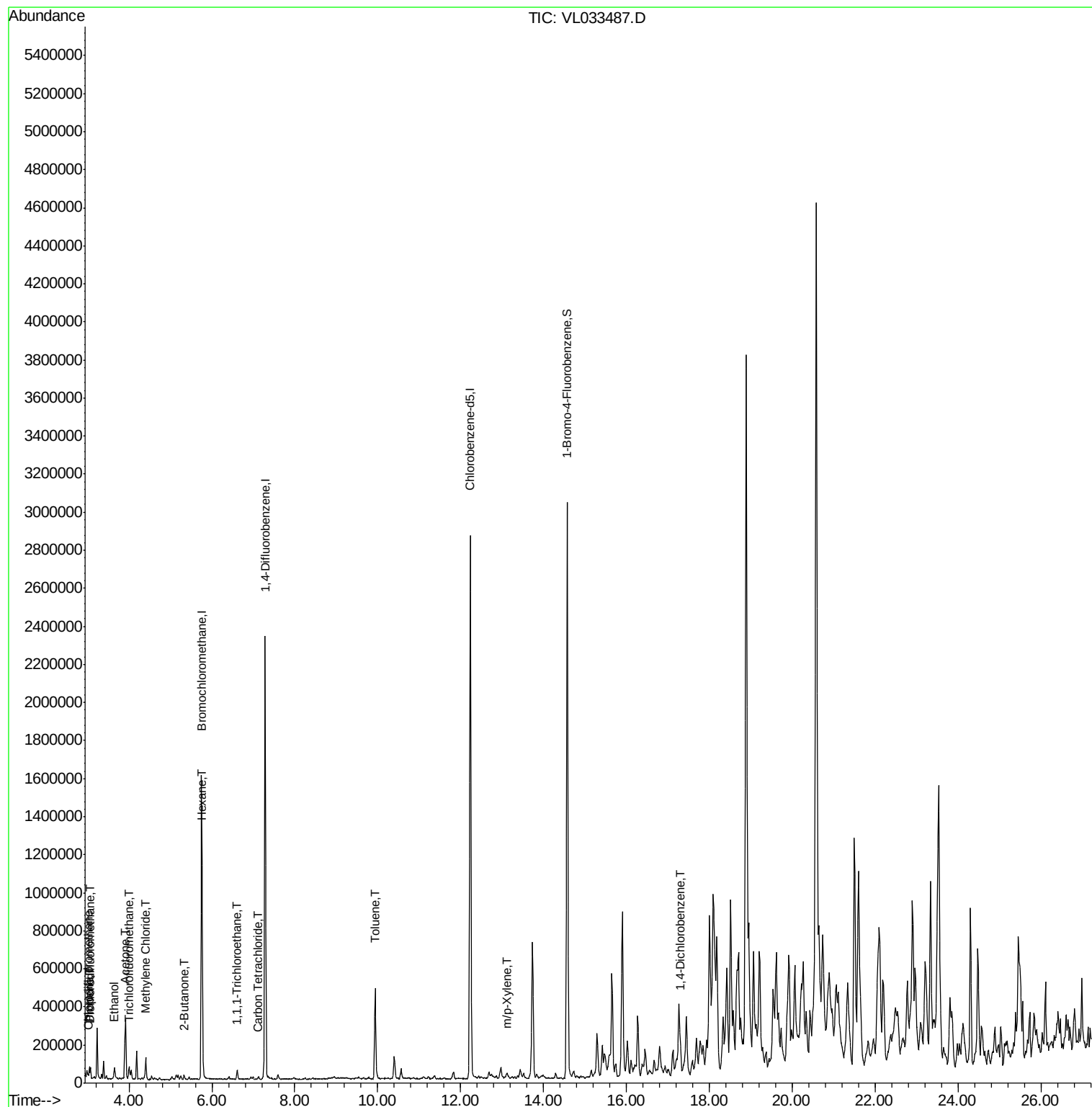
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032719\
Data File : VL033487.D
Acq On : 28 Mar 2019 3:33
Operator : SY/AP
Sample : K1991-05
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

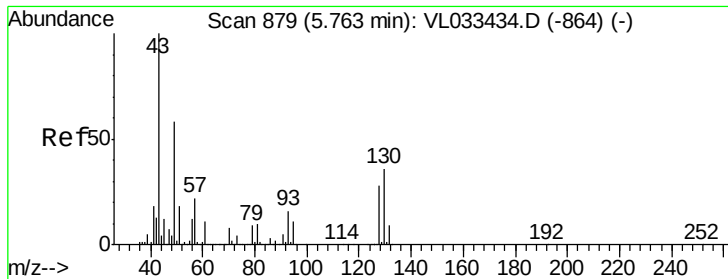
Instrument :
MSVOA_L
ClientSampleId :
VMP-3

Manual Integrations
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Quant Time: Mar 28 09:42:00 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.01 min

Lab File: VL033487.D

Acq: 28 Mar 2019 3:33

Instrument :

MSVOA_L

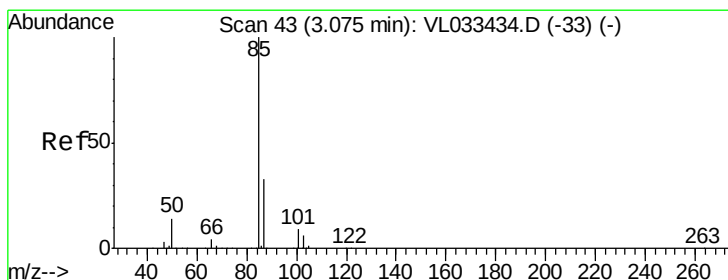
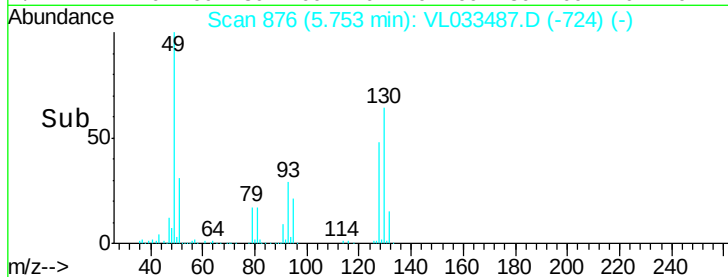
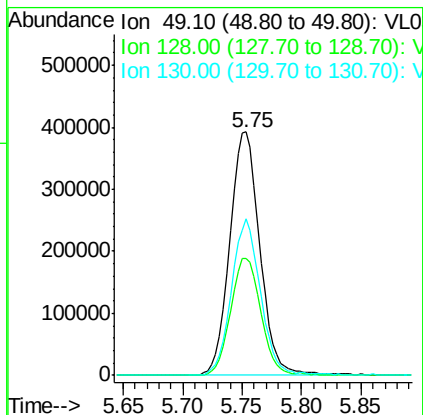
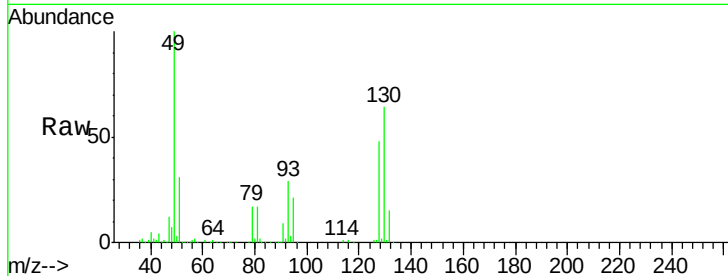
ClientSampled :

VMP-3

Tot Ion:	49	Resp:	689429
Ion	Ratio	Lower	Upper
49	100		
128	48.6	24.0	72.0
130	62.6	31.2	93.6

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#2

Dichlorodifluoromethane

Concen: 0.334 ppbv

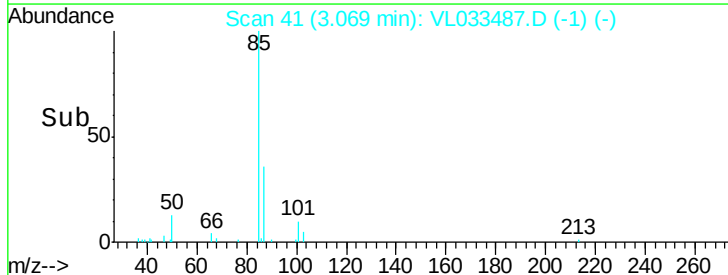
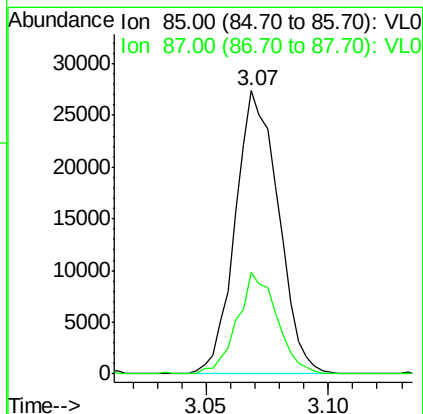
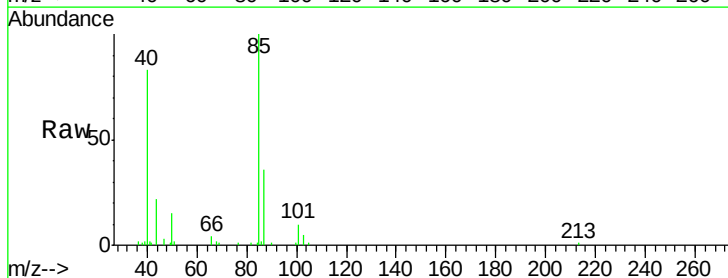
RT: 3.07 min Scan# 41

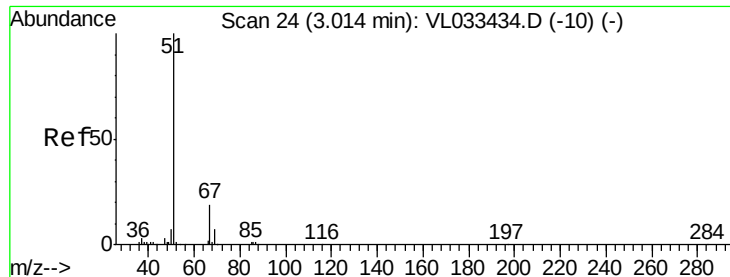
Delta R.T. -0.01 min

Lab File: VL033487.D

Acq: 28 Mar 2019 3:33

Tgt Ion:	85	Resp:	33573
Ion	Ratio	Lower	Upper
85	100		
87	36.1	26.7	40.1





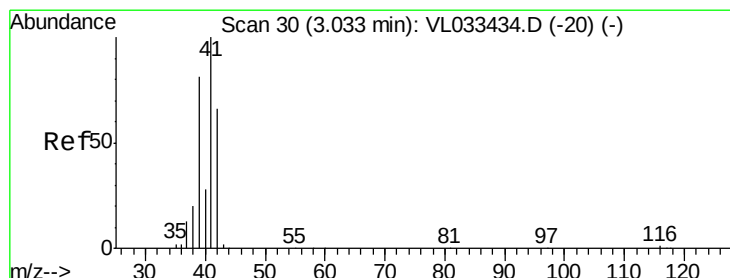
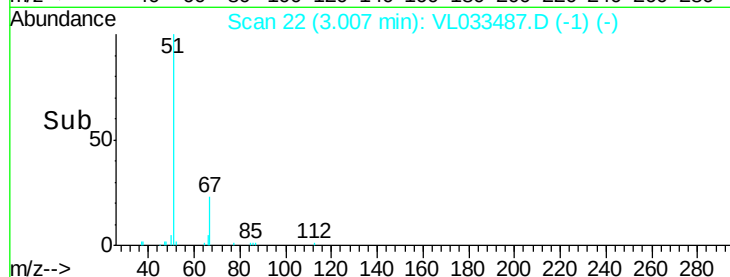
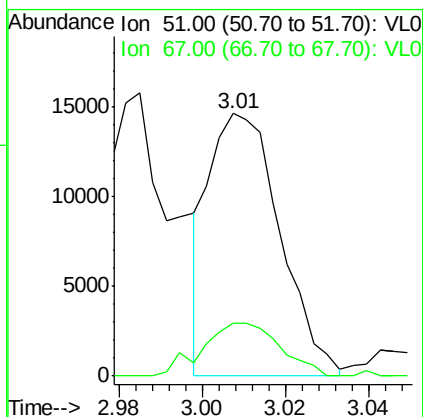
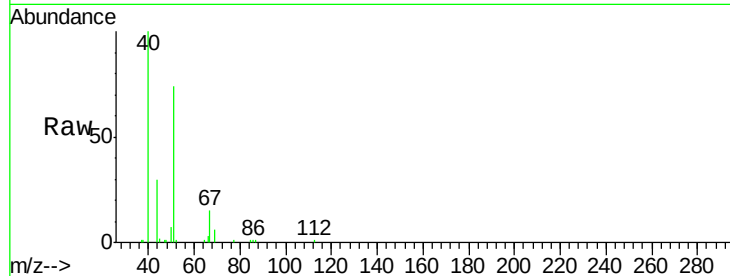
#3
Chlorodifluoromethane
Concen: 0.219 ppbv
RT: 3.01 min Scan# 22
Delta R.T. -0.01 min
Lab File: VL033487.D
Acq: 28 Mar 2019 3:33

Instrument :
MSVOA_L
ClientSampleId :
VMP-3

Tot Ion	Ratio	Lower	Upper
51	100		
67	22.4	15.7	23.5

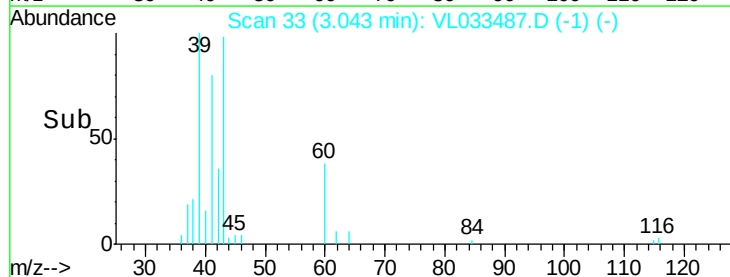
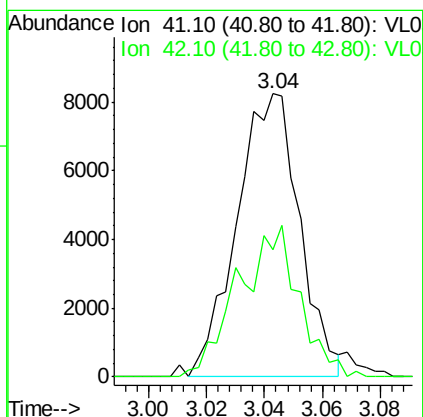
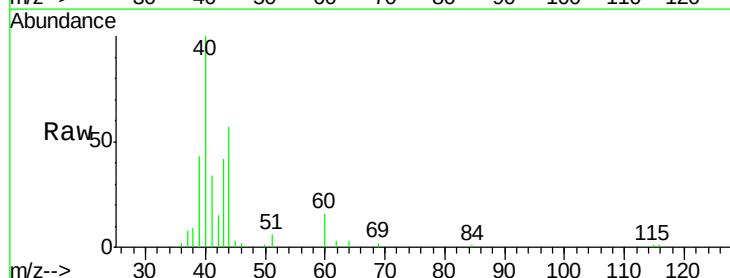
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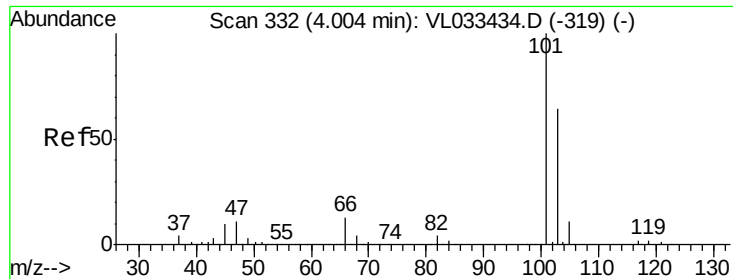
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#9
Propene
Concen: 0.372 ppbv
RT: 3.04 min Scan# 33
Delta R.T. 0.01 min
Lab File: VL033487.D
Acq: 28 Mar 2019 3:33

Tgt Ion	Ratio	Lower	Upper
41	100		
42	51.7	53.9	80.9#





#11

Trichlorofluoromethane

Concen: 0.303 ppbv

RT: 4.00 min Scan# 330

Delta R.T. -0.01 min

Lab File: VL033487.D

Acq: 28 Mar 2019 3:33

Tot Ion: 101 Resp: 37590

Ion Ratio Lower Upper

101 100

103 61.5 51.3 76.9

Instrument :

MSVOA_L

ClientSampleId :

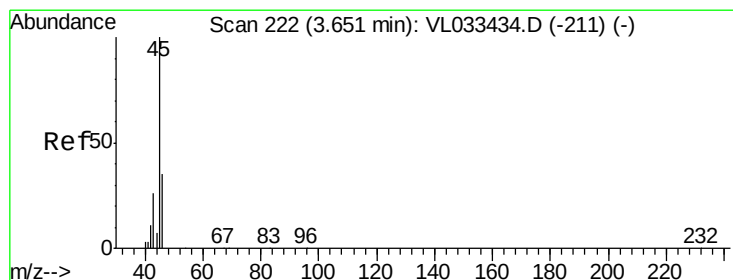
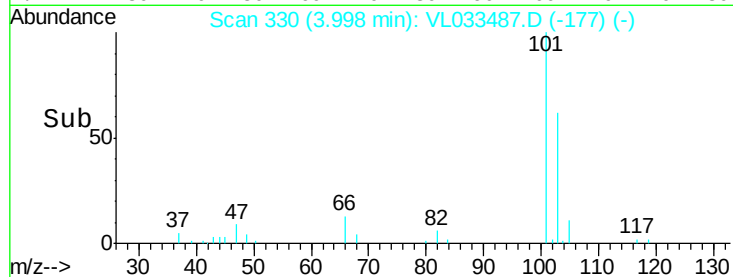
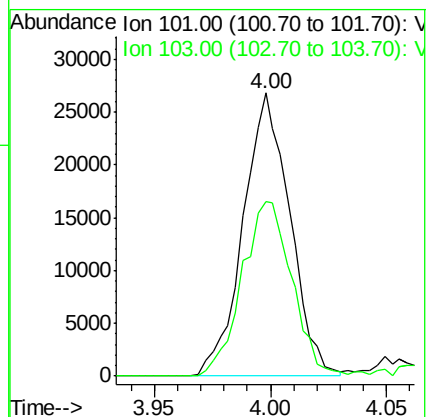
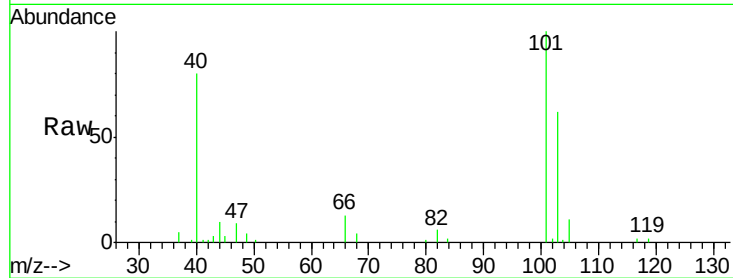
VMP-3

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#13

Ethanol

Concen: 7.717 ppbv

RT: 3.64 min Scan# 220

Delta R.T. -0.01 min

Lab File: VL033487.D

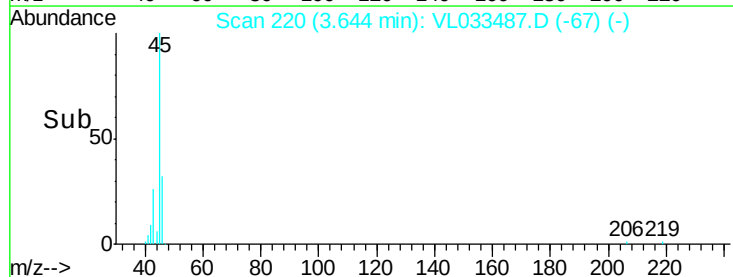
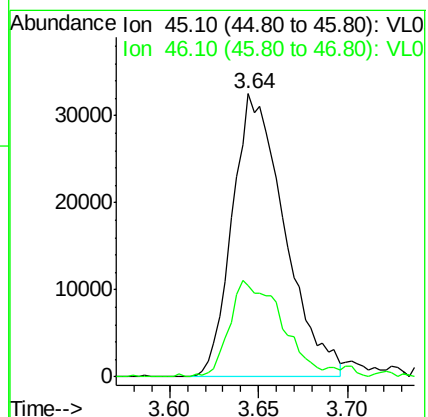
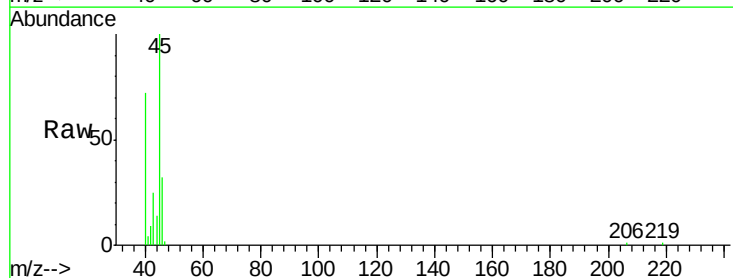
Acq: 28 Mar 2019 3:33

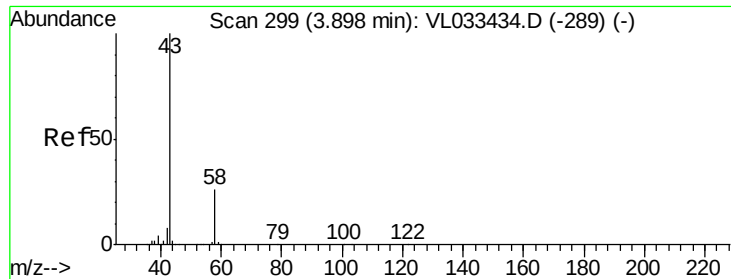
Tgt Ion: 45 Resp: 66566

Ion Ratio Lower Upper

45 100

46 36.4 25.4 101.8





#15

Acetone

Concen: 3.184 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033487.D

Acq: 28 Mar 2019 3:33

Instrument :

MSVOA_L

ClientSampleId :

VMP-3

Tot Ion: 43 Resp: 263950

Ion Ratio Lower Upper

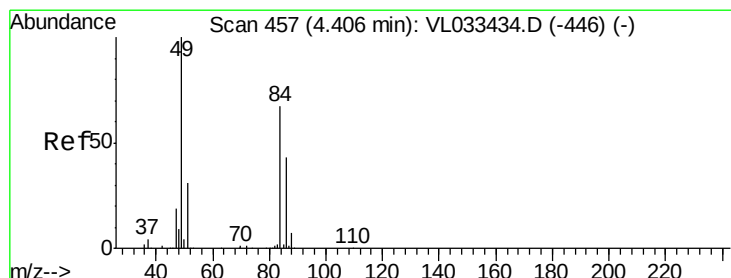
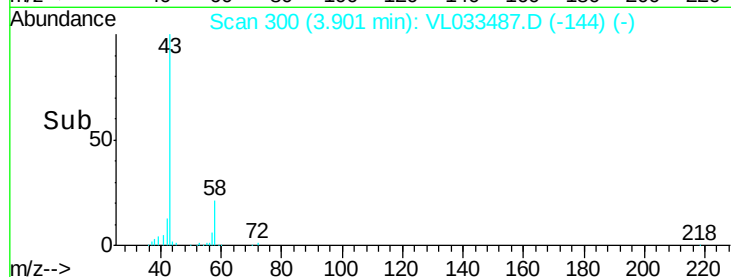
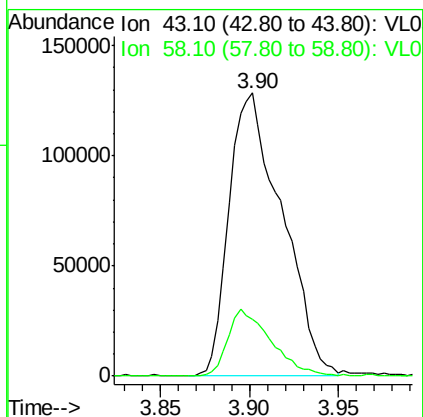
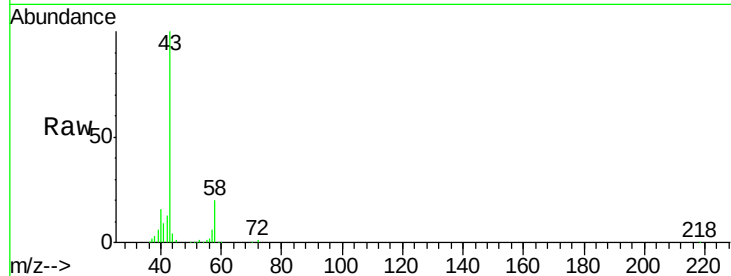
43 100

58 19.8 20.5 30.7#

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#20

Methylene Chloride

Concen: 1.102 ppbv

RT: 4.40 min Scan# 456

Delta R.T. -0.00 min

Lab File: VL033487.D

Acq: 28 Mar 2019 3:33

Tgt Ion: 84 Resp: 38782

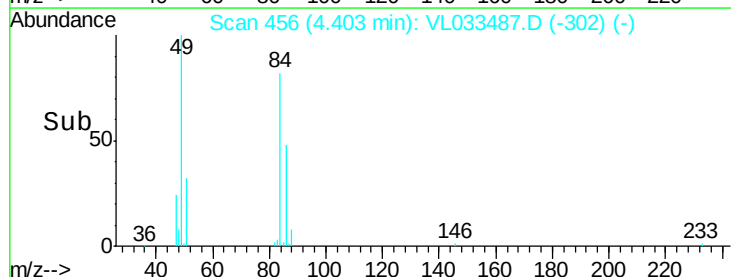
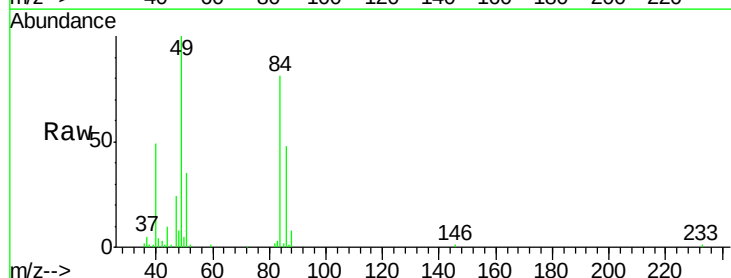
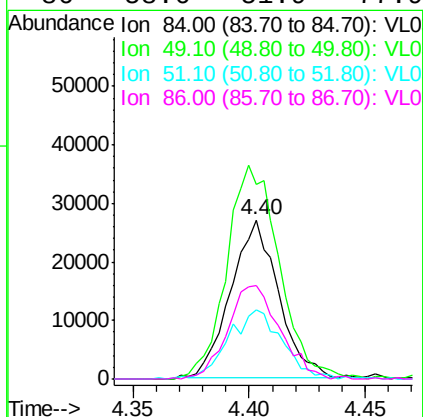
Ion Ratio Lower Upper

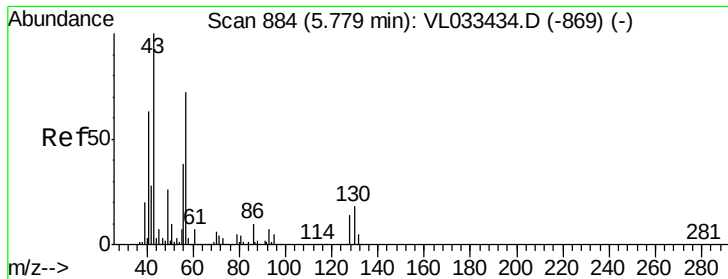
84 100

49 120.3 120.0 180.0

51 43.5 36.7 55.1

86 58.6 51.9 77.9





#26

Hexane

Concen: 0.699 ppbv

RT: 5.77 min Scan# 882

Delta R.T. -0.01 min

Lab File: VL033487.D

Acq: 28 Mar 2019 3:33

Instrument :

MSVOA_L

ClientSampleId :

VMP-3

Tot Ion: 57 Resp: 47793

Ion Ratio Lower Upper

57 100

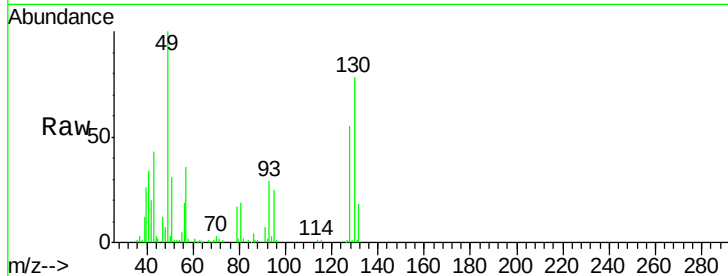
41 99.9 70.7 106.1

43 145.9 182.6 274.0#

56 57.0 42.0 63.0

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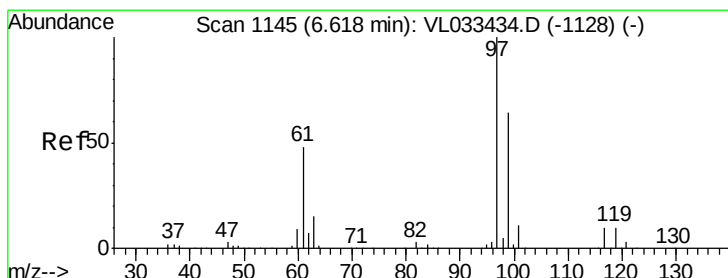
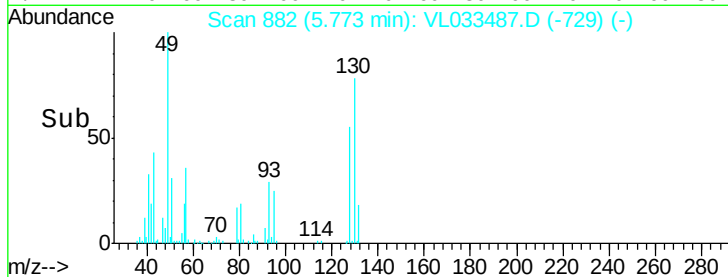
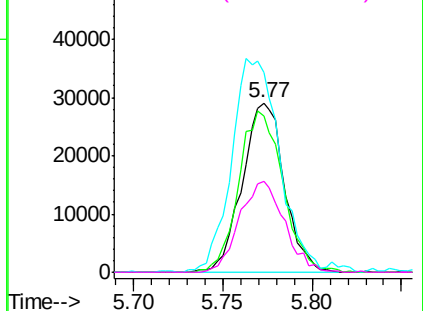


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#32

1,1,1-Trichloroethane

Concen: 0.235 ppbv

RT: 6.61 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VL033487.D

Acq: 28 Mar 2019 3:33

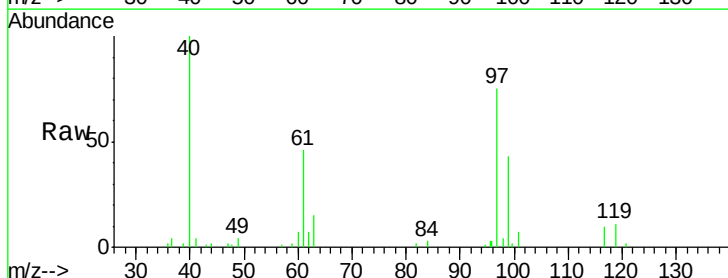
Tgt Ion: 97 Resp: 26187

Ion Ratio Lower Upper

97 100

99 70.2 51.5 77.3

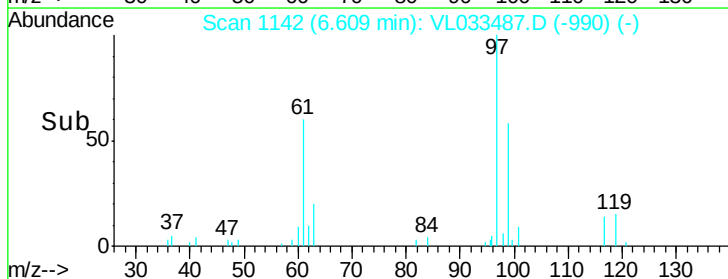
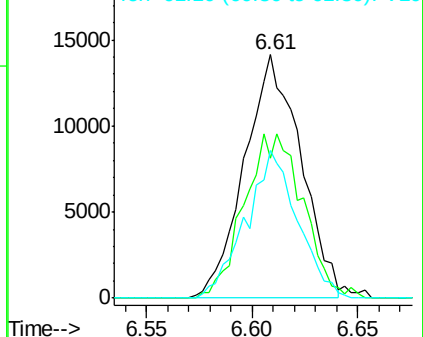
61 55.6 38.8 58.2

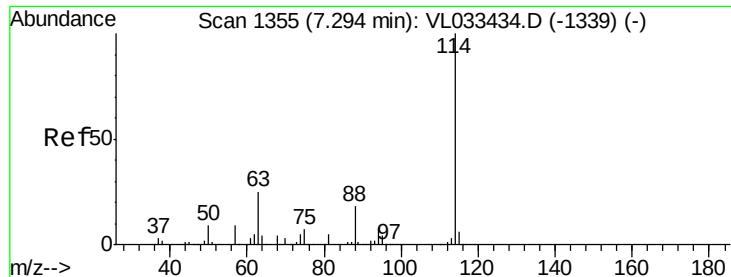


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0





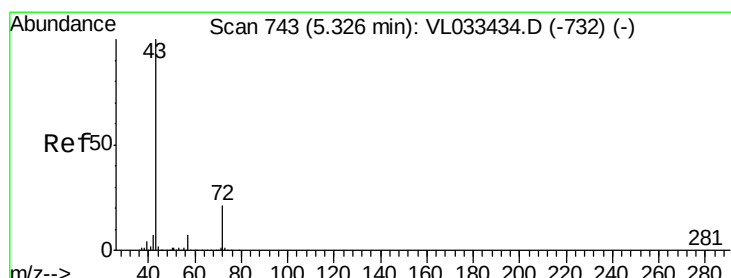
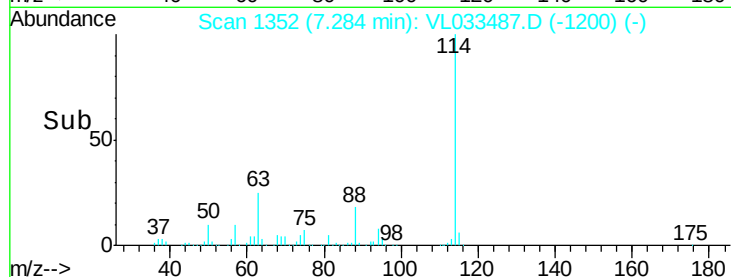
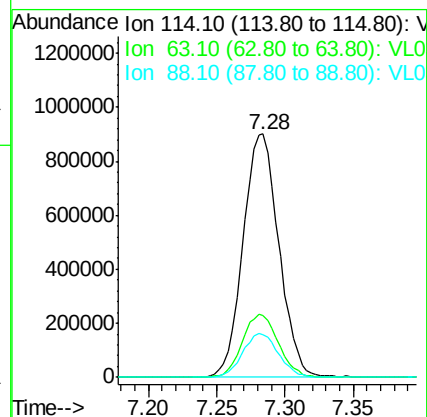
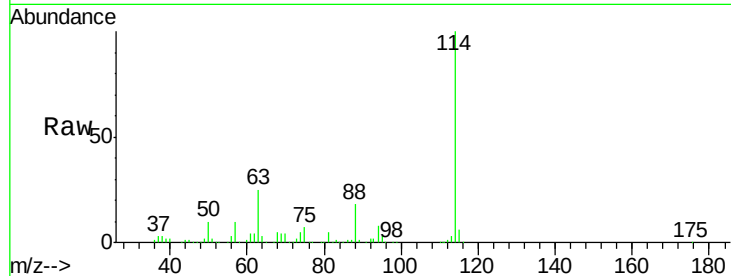
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1352
 Delta R.T. -0.01 min
 Lab File: VL033487.D
 Acq: 28 Mar 2019 3:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VMP-3

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.1	21.5	32.3
88	18.1	14.5	21.7

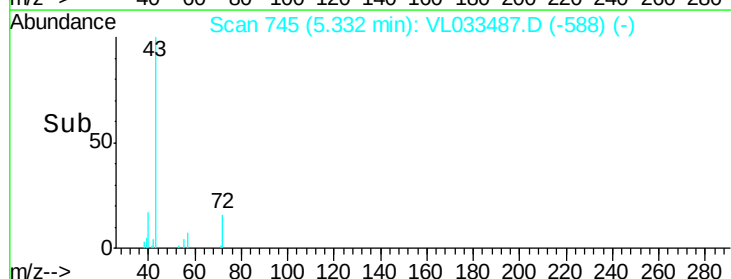
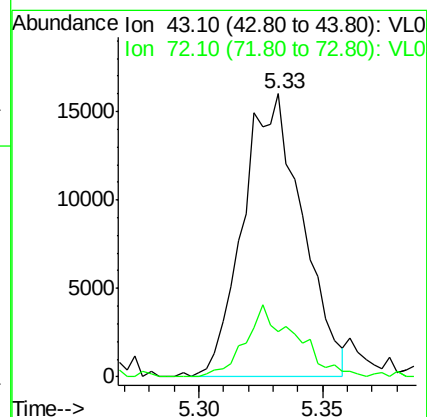
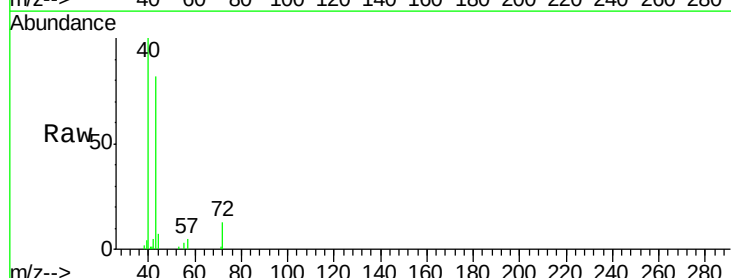
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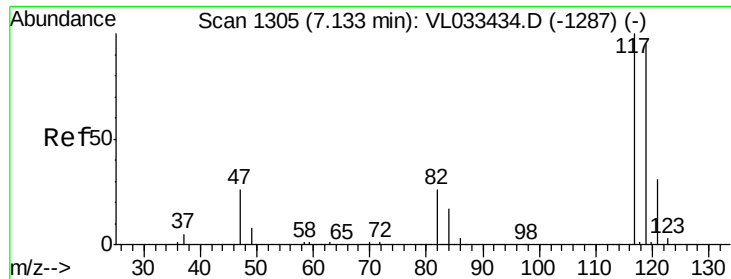
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#34
 2-Butanone
 Concen: 0.271 ppbv m
 RT: 5.33 min Scan# 745
 Delta R.T. 0.01 min
 Lab File: VL033487.D
 Acq: 28 Mar 2019 3:33

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.2	17.4	26.2





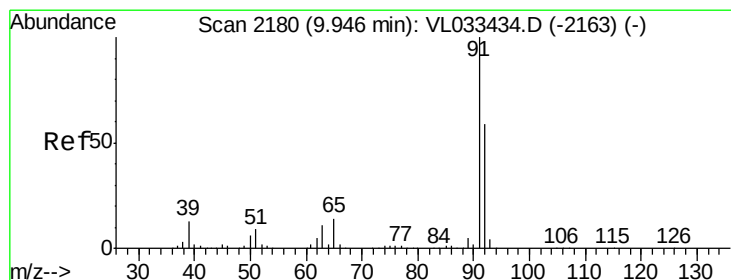
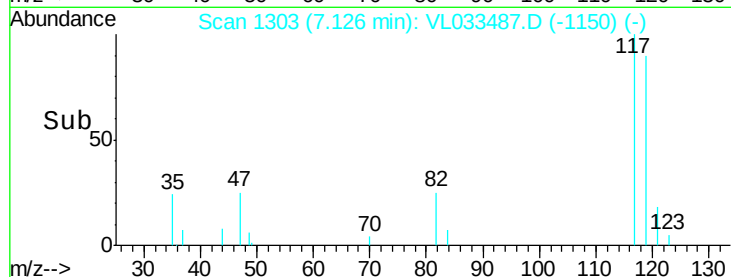
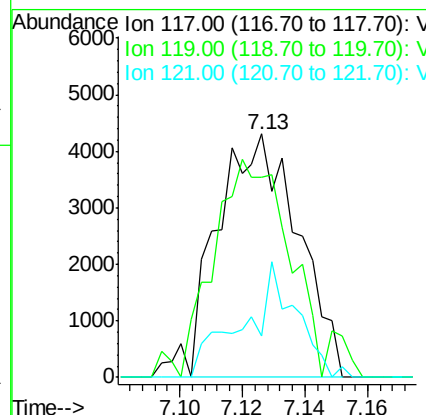
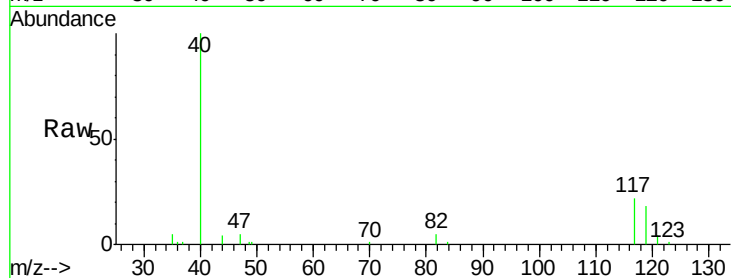
#35
Carbon Tetrachloride
Concen: 0.065 ppbv m
RT: 7.13 min Scan# 1303
Delta R.T. -0.01 min
Lab File: VL033487.D
Acq: 28 Mar 2019 3:33

Instrument :
MSVOA_L
ClientSampled :
VMP-3

Tot Ion	Ratio	Lower	Upper
117	100		
119	82.2	75.8	113.8
121	16.8	24.7	37.1#

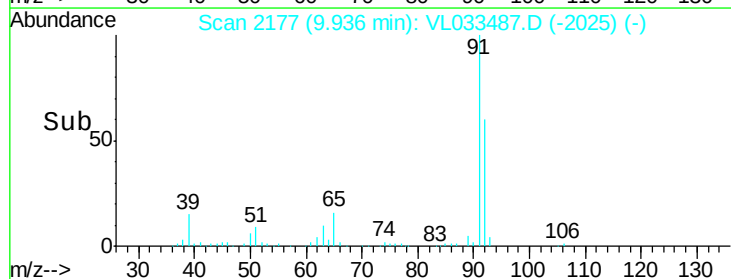
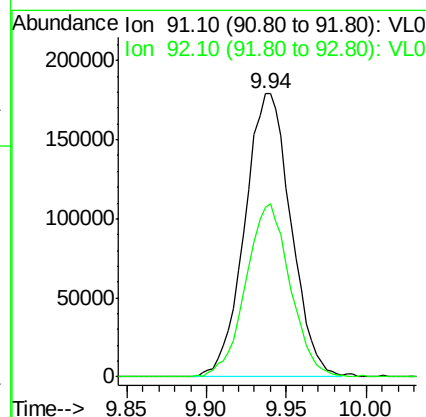
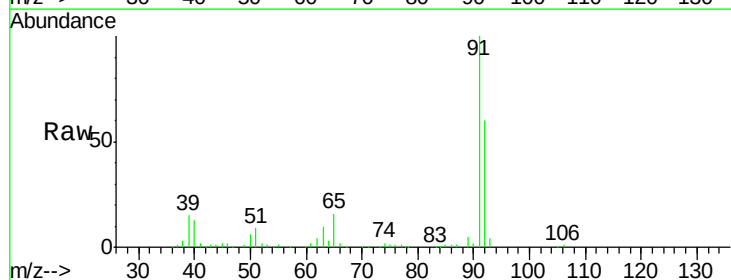
Manual Integrations
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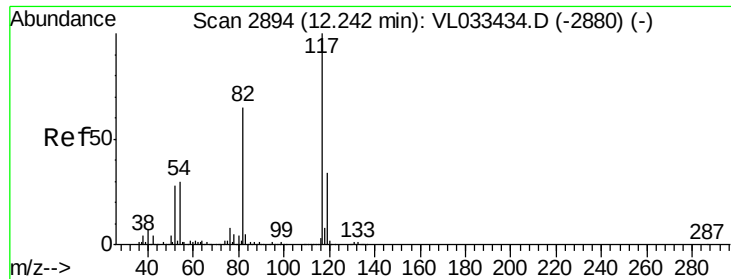
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#53
Toluene
Concen: 2.213 ppbv
RT: 9.94 min Scan# 2177
Delta R.T. -0.01 min
Lab File: VL033487.D
Acq: 28 Mar 2019 3:33

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.8	47.4	71.0





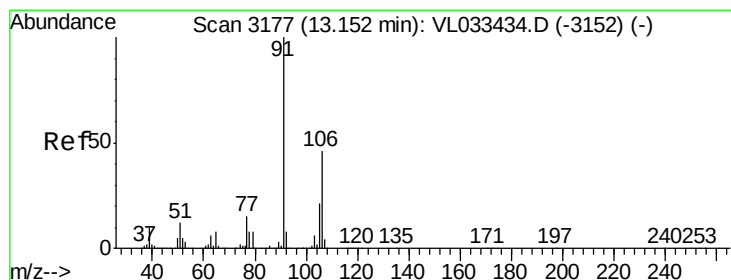
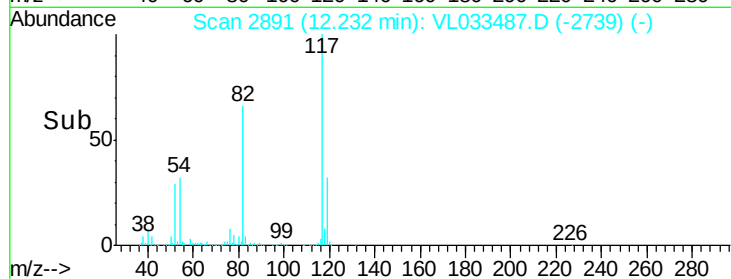
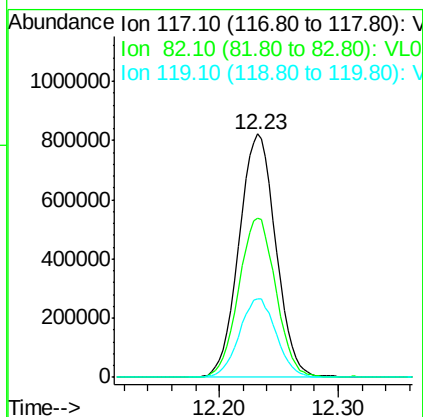
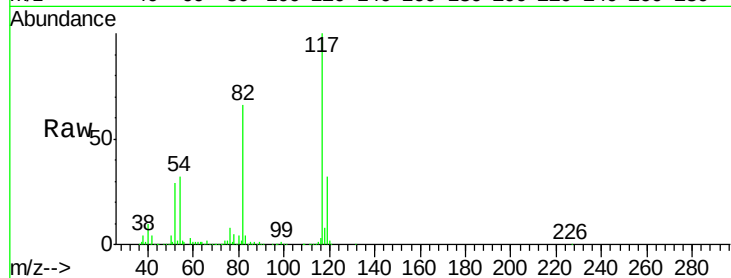
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL033487.D
Acq: 28 Mar 2019 3:33

Instrument :
MSVOA_L
ClientSampleId :
VMP-3

Tot Ion	Ratio	Lower	Upper
117	100		
82	66.4	51.5	77.3
119	32.6	25.5	38.3

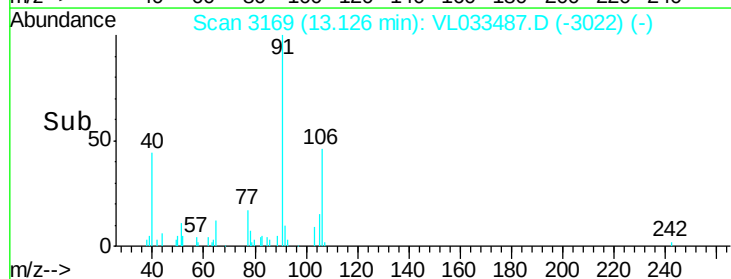
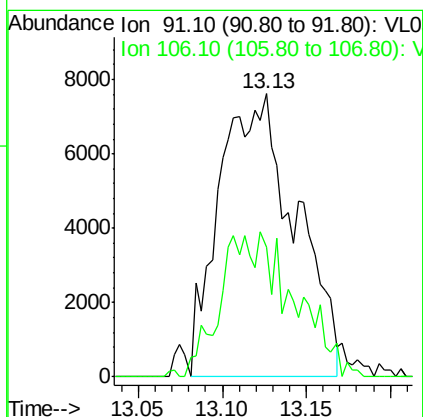
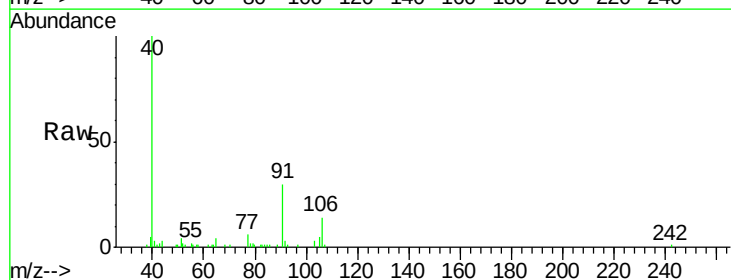
Manual Integrations
APPROVED

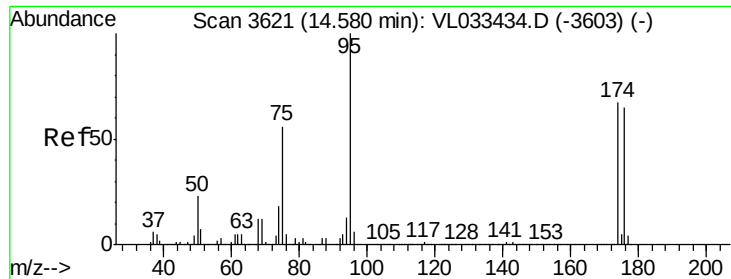
MMDadoda
4/1/2019 1:26:05 AM



#59
m/p-Xylene
Concen: 0.115 ppbv m
RT: 13.13 min Scan# 3169
Delta R.T. -0.03 min
Lab File: VL033487.D
Acq: 28 Mar 2019 3:33

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0





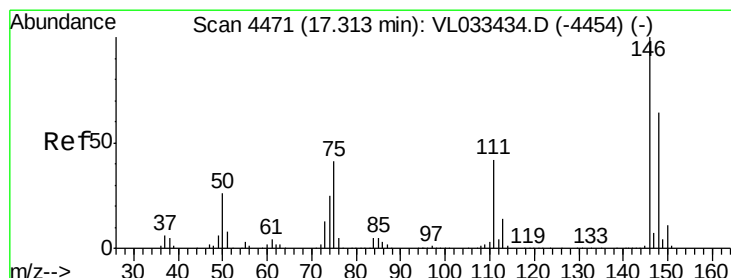
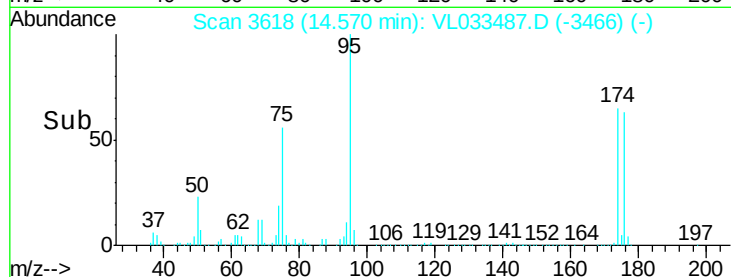
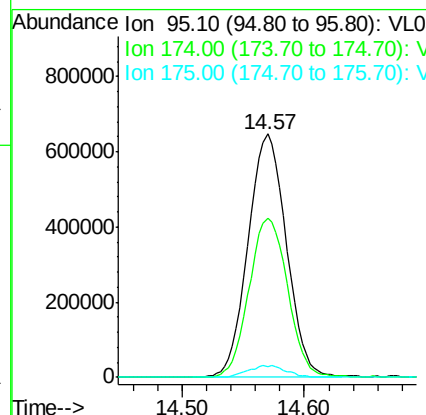
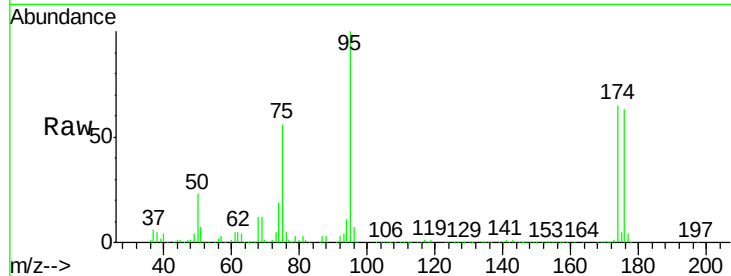
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.149 ppbv
 RT: 14.57 min Scan# 3618
 Delta R.T. -0.01 min
 Lab File: VL033487.D
 Acq: 28 Mar 2019 3:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VMP-3

Tot Ion: 95 Resp: 1401328
 Ion Ratio Lower Upper
 95 100
 174 66.2 52.9 79.3
 175 4.8 3.8 5.6

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:26:05 AM



#76
 1,4-Dichlorobenzene
 Concen: 0.435 ppbv m
 RT: 17.30 min Scan# 4468
 Delta R.T. -0.01 min
 Lab File: VL033487.D
 Acq: 28 Mar 2019 3:33

Tgt Ion: 146 Resp: 61314
 Ion Ratio Lower Upper
 146 100
 111 44.0 21.7 65.1
 148 70.1 32.0 96.2

