

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021820\
 Data File : VL034627.D
 Acq On : 18 Feb 2020 17:02
 Operator : SY/AP
 Sample : L1532-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 DC-IA

Manual Integrations
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 2/21/2020 3:25:46 PM

Quant Time: Feb 20 16:48:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 2020
 QLast Update : Thu Jan 30 17:16:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	946287	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1967895	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	1930695	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	1671340	10.24	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	52606	0.252	ppbv	89
3) Chlorodifluoromethane	2.95	51	35235m	0.308	ppbv	
4) Chloromethane	3.10	50	28158m	0.402	ppbv	
9) Propene	2.98	41	37078	0.833	ppbv #	68
11) Trichlorofluoromethane	3.92	101	47214	0.249	ppbv	93
13) Ethanol	3.57	45	118655	9.950	ppbv	98
15) Acetone	3.82	43	1516192	10.902	ppbv	100
19) Isopropyl Alcohol	3.96	45	38049	0.469	ppbv #	94
20) Methylene Chloride	4.32	84	45676	0.863	ppbv	92
26) Hexane	5.68	57	20867m	0.221	ppbv	
31) cis-1,2-Dichloroethene	5.53	61	10090m	0.103	ppbv	
35) Carbon Tetrachloride	7.02	117	11689m	0.062	ppbv	
38) Trichloroethene	7.84	130	2481m	0.034	ppbv	
52) Tetrachloroethene	11.25	164	112490	1.600	ppbv	95

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

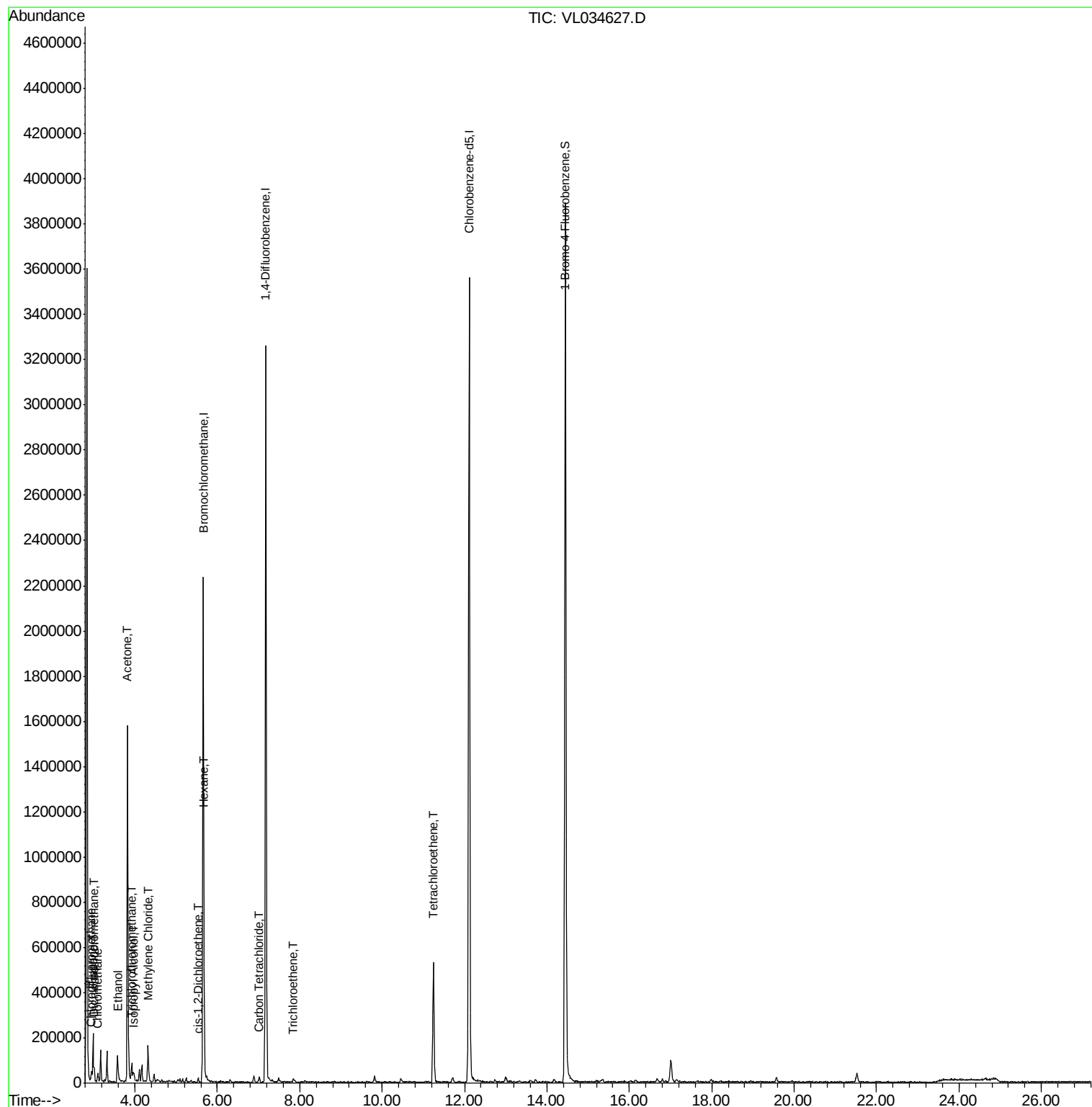
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL021820\
Data File : VL034627.D
Acq On : 18 Feb 2020 17:02
Operator : SY/AP
Sample : L1532-04
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

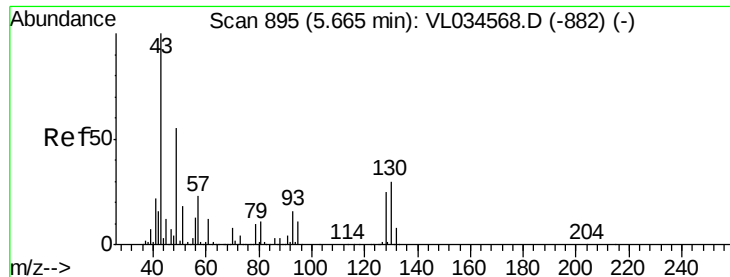
Instrument :
MSVOA_L
ClientSampleId :
DC-IA

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Quant Time: Feb 20 16:48:55 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan
QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.01 min

Lab File: VL034627.D

Acq: 18 Feb 2020 17:02

Instrument :

MSVOA_L

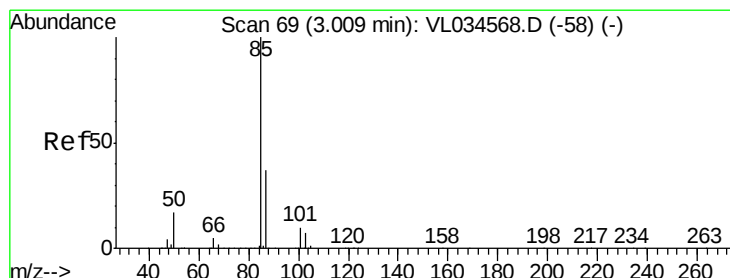
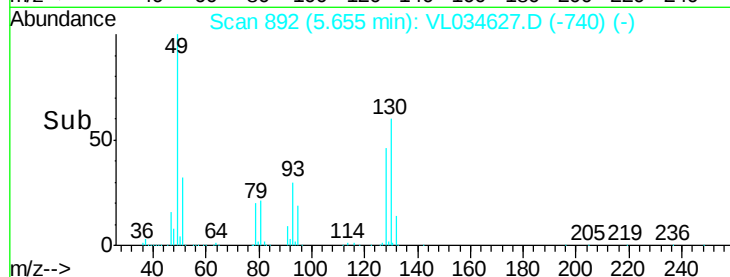
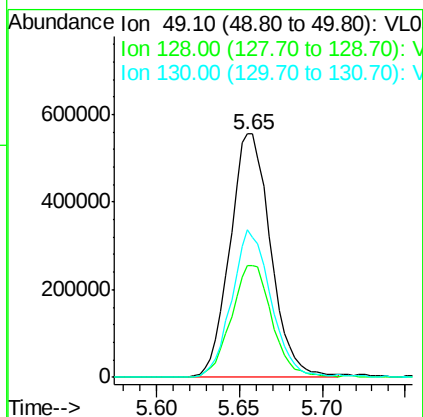
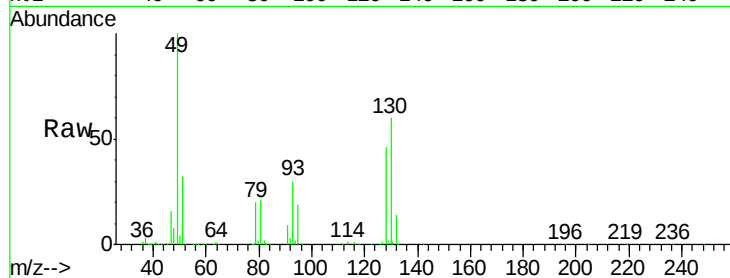
ClientSampleId :

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Tot Ion:	49	Resp:	946287
Ion Ratio	Lower	Upper	
49	100		
128	46.7	22.7	68.1
130	59.3	28.6	85.8

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#2

Dichlorodifluoromethane

Concen: 0.252 ppbv

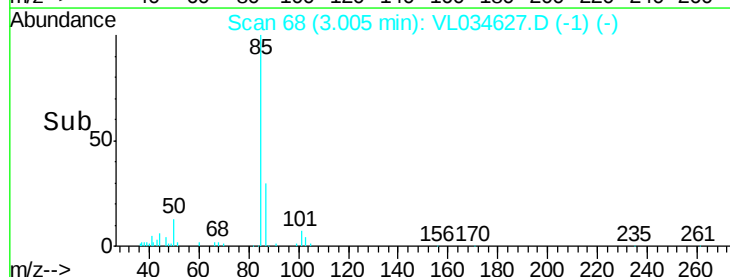
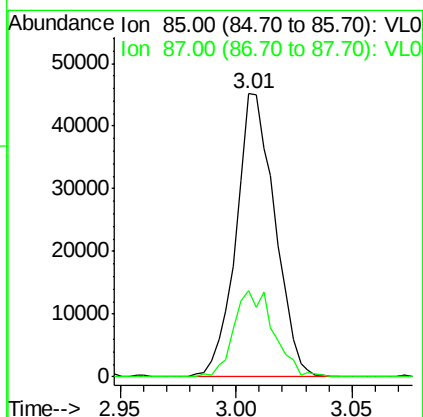
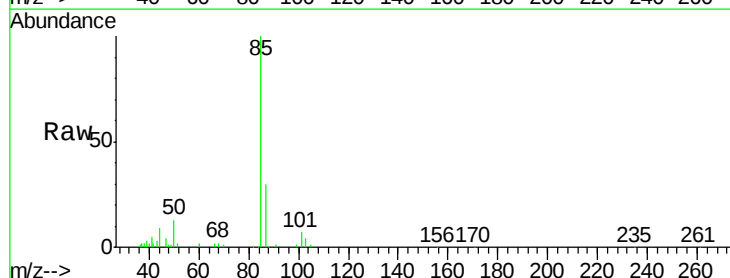
RT: 3.01 min Scan# 68

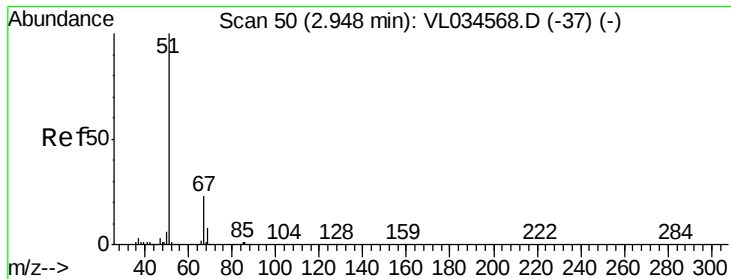
Delta R.T. -0.00 min

Lab File: VL034627.D

Acq: 18 Feb 2020 17:02

Tgt Ion:	85	Resp:	52606
Ion Ratio	Lower	Upper	
85	100		
87	30.4	29.5	44.3





#3

Chlorodifluoromethane

Concen: 0.308 ppbv m

RT: 2.95 min Scan# 50

Delta R.T. -0.00 min

Lab File: VL034627.D

Acq: 18 Feb 2020 17:02

Instrument :

MSVOA_L

ClientSampleId :

DC-IA

Tot Ion: 51 Resp: 35235

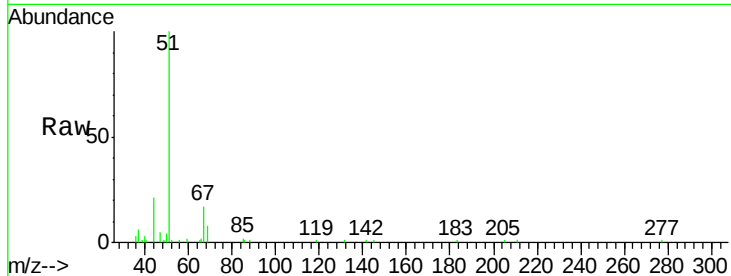
Ion Ratio Lower Upper

51 100

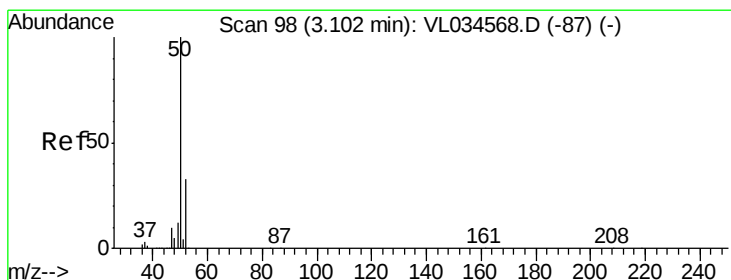
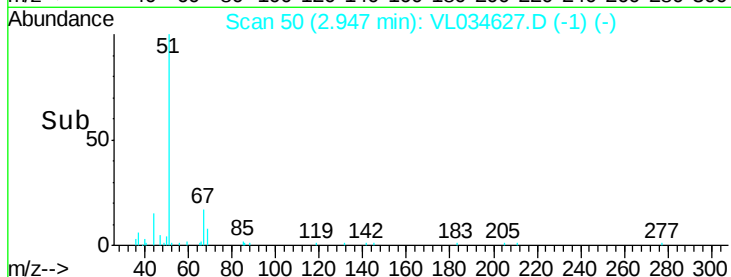
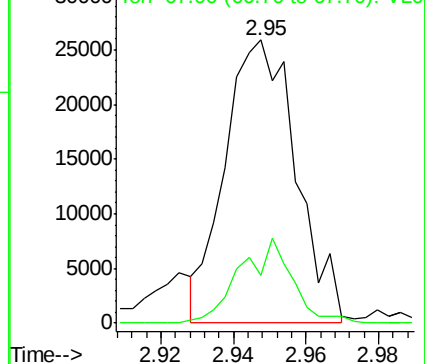
67 21.9 17.8 26.8

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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: 0.402 ppbv m

RT: 3.10 min Scan# 98

Delta R.T. -0.00 min

Lab File: VL034627.D

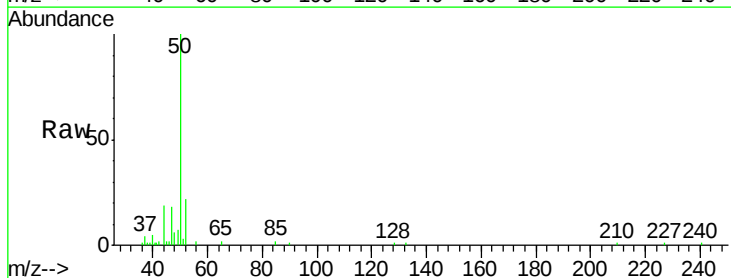
Acq: 18 Feb 2020 17:02

Tgt Ion: 50 Resp: 28158

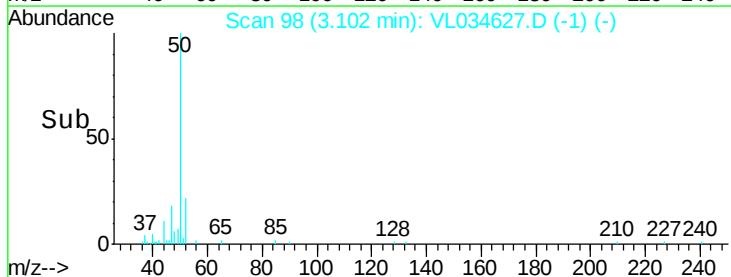
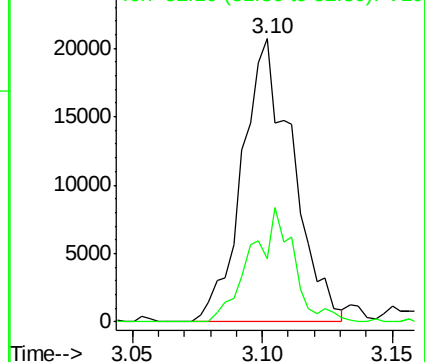
Ion Ratio Lower Upper

50 100

52 22.3 26.6 39.8#



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





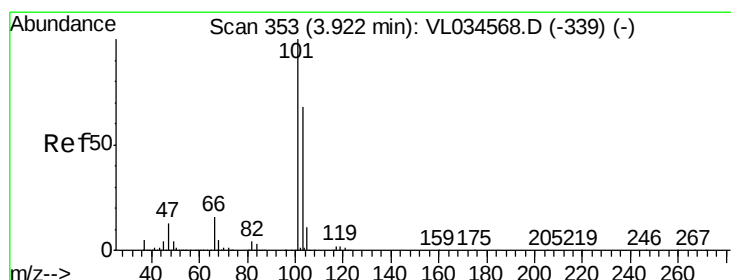
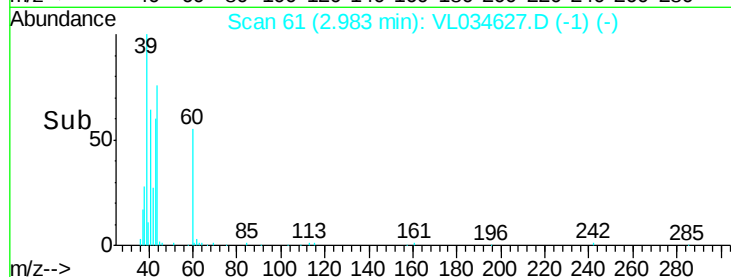
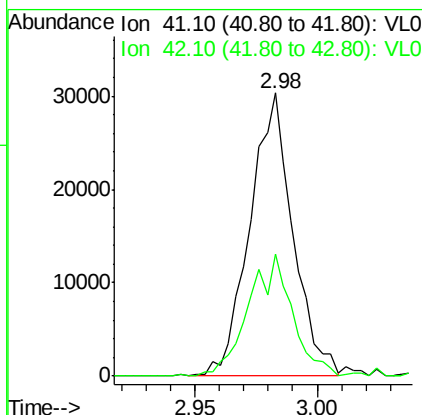
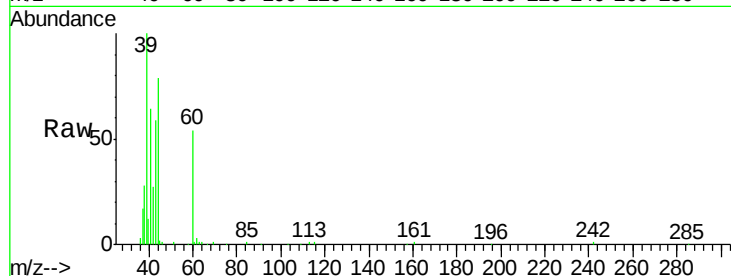
#9
 Propene
 Concen: 0.833 ppbv
 RT: 2.98 min Scan# 61
 Delta R.T. 0.01 min
 Lab File: VL034627.D
 Acq: 18 Feb 2020 17:02

Instrument :
 MSVOA_L
 ClientSampleId :
 DC-IA

Tot Ion: 41 Resp: 37078
 Ion Ratio Lower Upper
 41 100
 42 44.8 57.0 85.4#

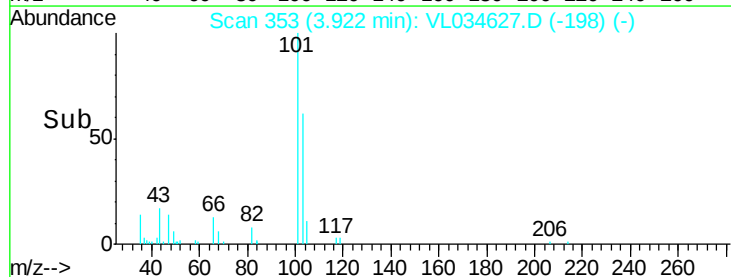
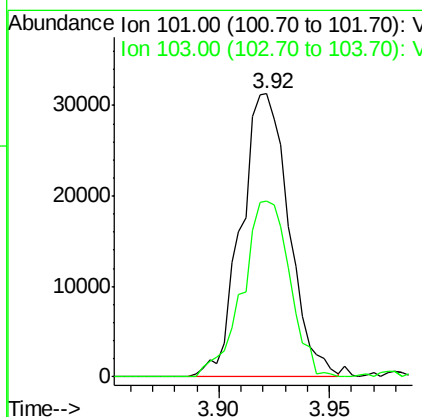
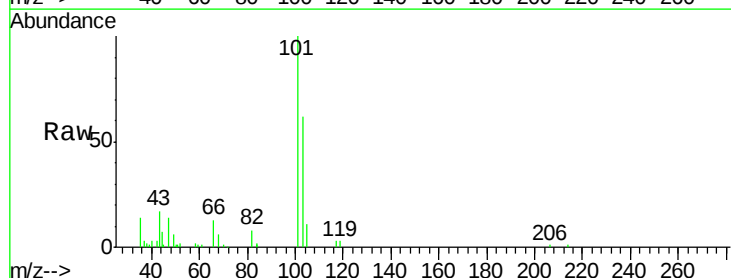
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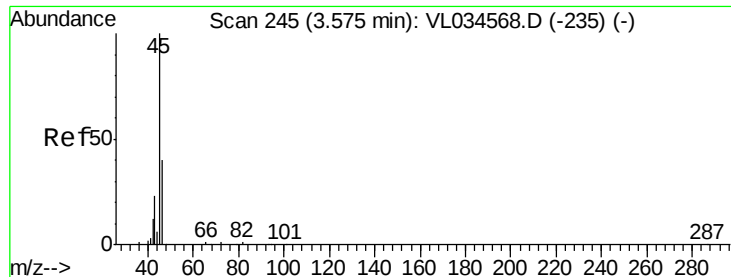
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#11
 Trichlorofluoromethane
 Concen: 0.249 ppbv
 RT: 3.92 min Scan# 353
 Delta R.T. -0.00 min
 Lab File: VL034627.D
 Acq: 18 Feb 2020 17:02

Tgt Ion: 101 Resp: 47214
 Ion Ratio Lower Upper
 101 100
 103 62.2 54.4 81.6





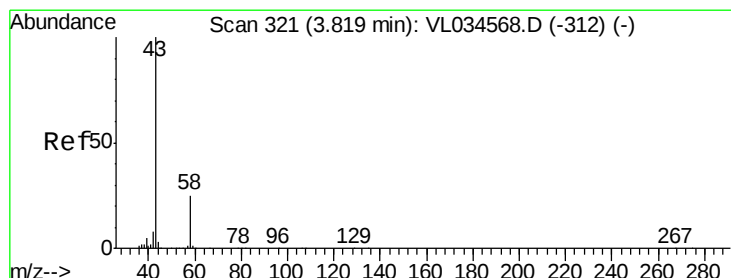
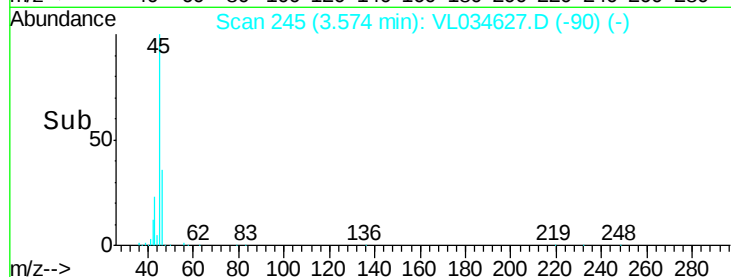
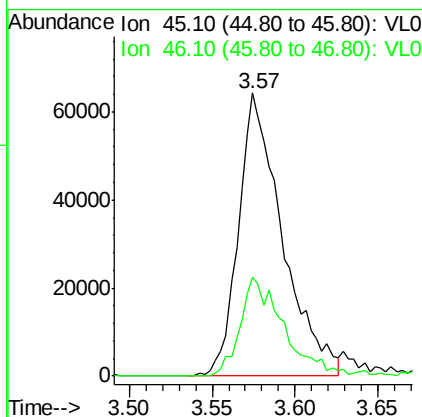
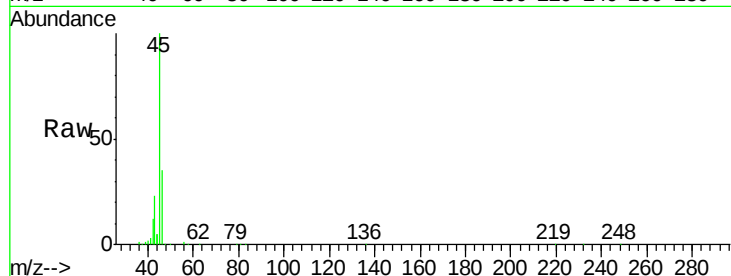
#13
Ethanol
Concen: 9.950 ppbv
RT: 3.57 min Scan# 245
Delta R.T. -0.00 min
Lab File: VL034627.D
Acq: 18 Feb 2020 17:02

Instrument :
MSVOA_L
ClientSampleId :
DC-IA

Tot Ion	45	Resp	118655
Ion Ratio	100	Lower	Upper
46	36.0	14.8	59.2

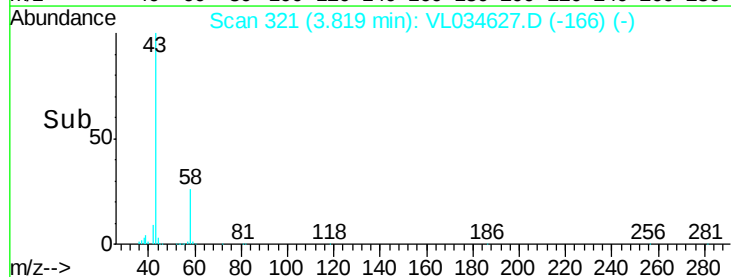
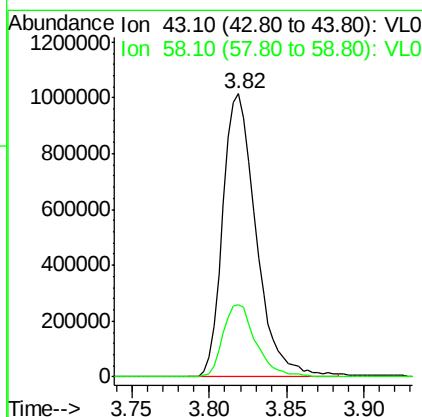
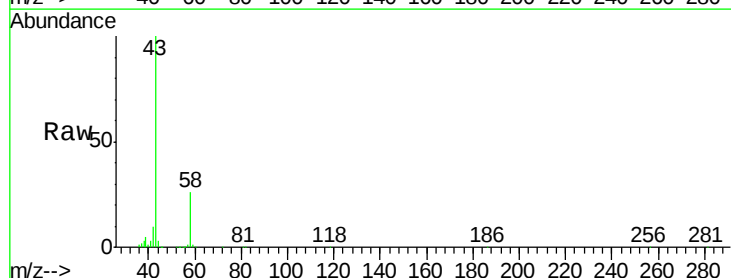
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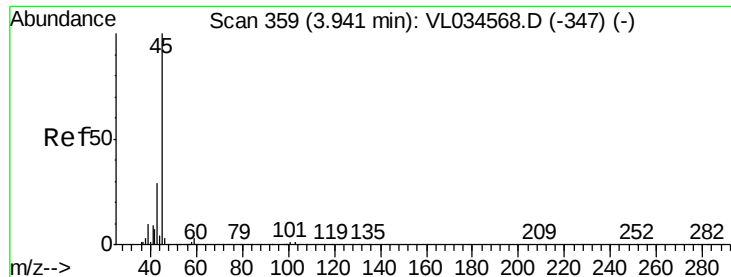
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#15
Acetone
Concen: 10.902 ppbv
RT: 3.82 min Scan# 321
Delta R.T. -0.00 min
Lab File: VL034627.D
Acq: 18 Feb 2020 17:02

Tgt Ion	43	Resp	1516192
Ion Ratio	100	Lower	Upper
58	25.5	20.3	30.5





#19

Isopropyl Alcohol

Concen: 0.469 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.02 min

Lab File: VL034627.D

Acq: 18 Feb 2020 17:02

Instrument :

MSVOA_L

ClientSampleId :

DC-IA

Tot Ion: 45 Resp: 38049

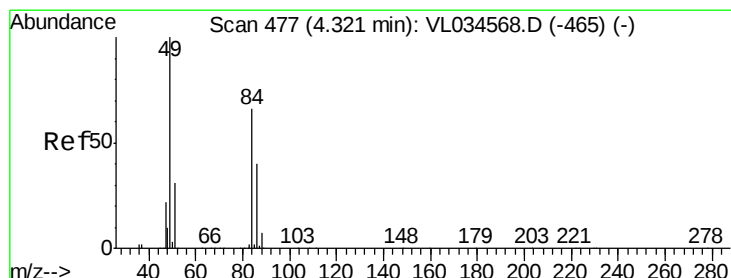
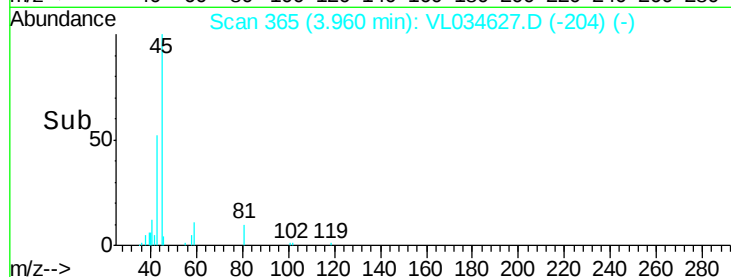
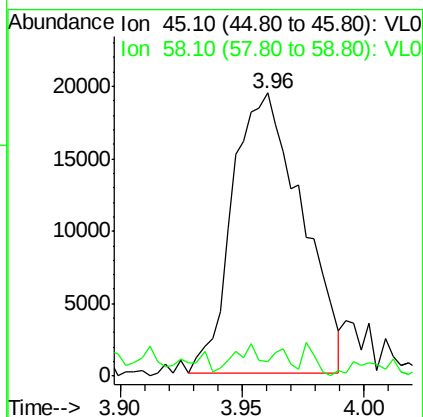
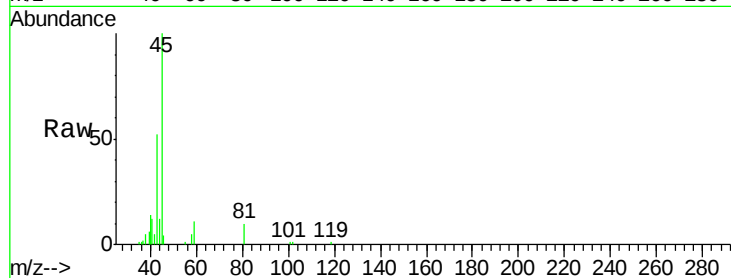
Ion Ratio Lower Upper

45 100

58 0.0 1.7 2.5#

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#20

Methylene Chloride

Concen: 0.863 ppbv

RT: 4.32 min Scan# 476

Delta R.T. -0.00 min

Lab File: VL034627.D

Acq: 18 Feb 2020 17:02

Tgt Ion: 84 Resp: 45676

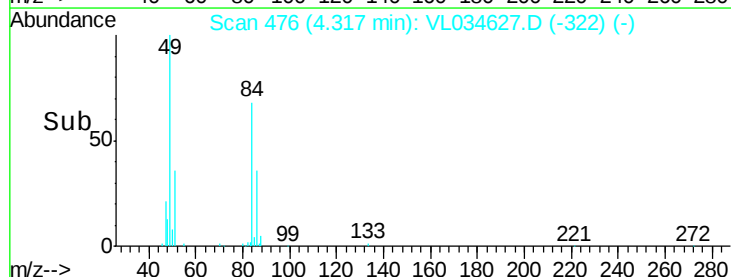
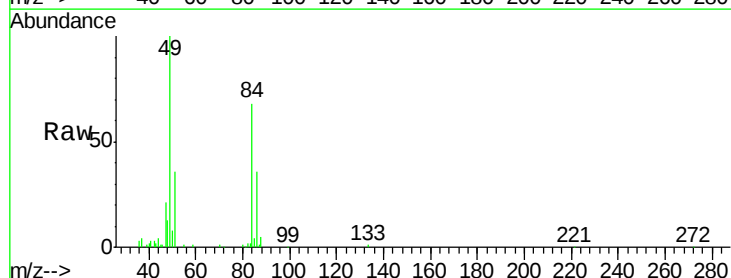
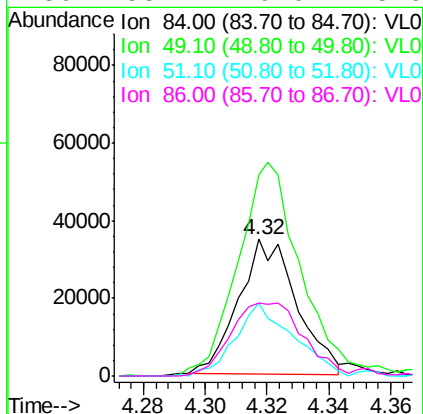
Ion Ratio Lower Upper

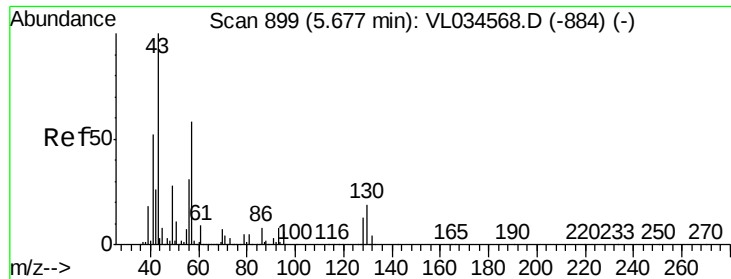
84 100

49 143.8 122.4 183.6

51 54.1 38.6 57.8

86 53.4 49.0 73.6





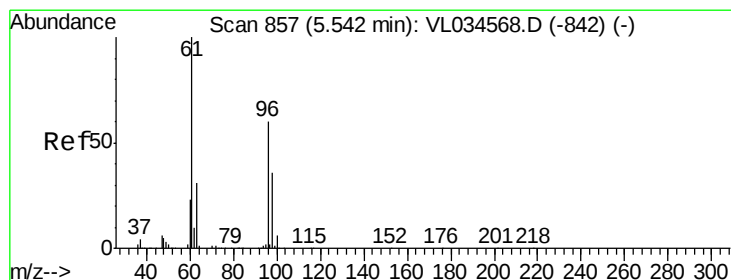
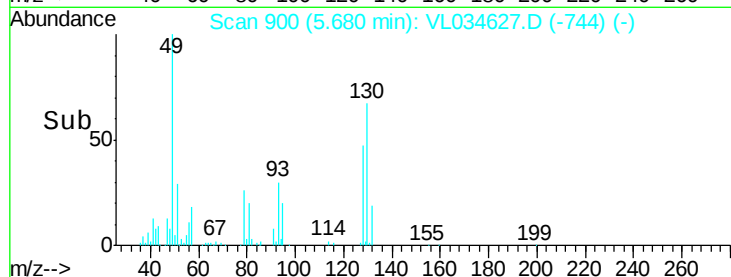
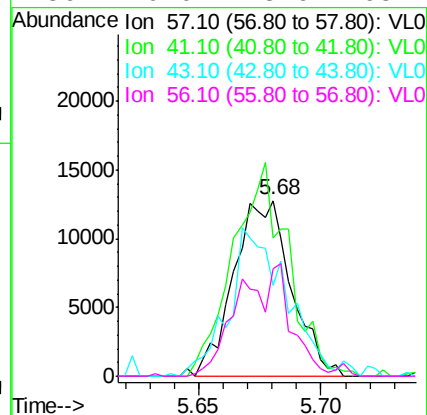
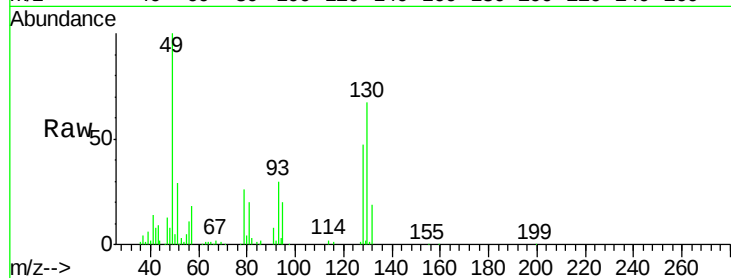
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Hexane
Concen: 0.221 ppbv m
RT: 5.68 min Scan# 900
Delta R.T. 0.00 min
Lab File: VL034627.D
Acq: 18 Feb 2020 17:02

Instrument :
MSVOA_L
ClientSampleId :
DC-IA

Tot Ion	Ratio	Lower	Upper
57	100		
41	0.0	76.2	114.2#
43	86.8	189.9	284.9#
56	0.0	43.6	65.4#

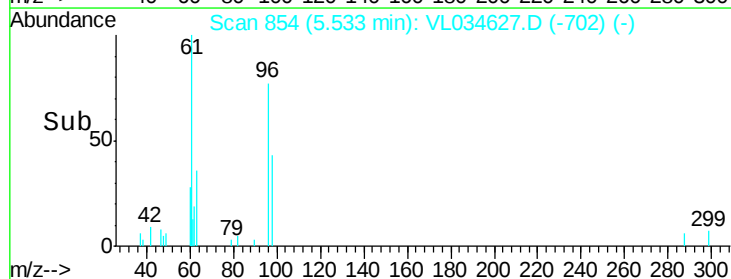
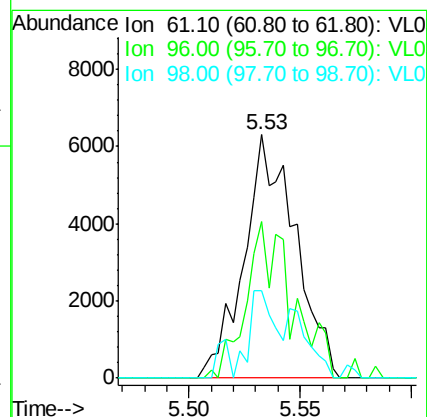
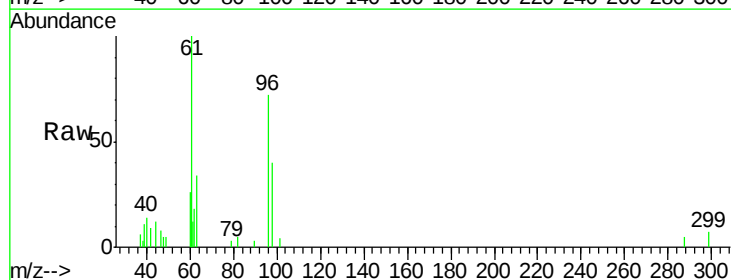
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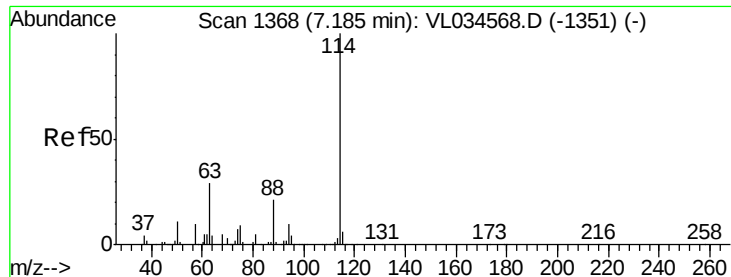
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#31
cis-1,2-Dichloroethene
Concen: 0.103 ppbv m
RT: 5.53 min Scan# 854
Delta R.T. -0.01 min
Lab File: VL034627.D
Acq: 18 Feb 2020 17:02

Tgt Ion	Ratio	Lower	Upper
61	100		
96	72.4	48.0	72.0#
98	40.1	28.6	43.0





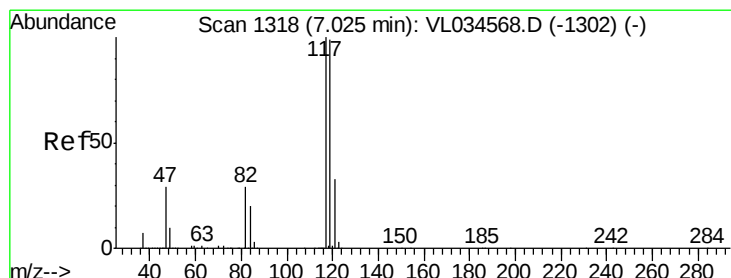
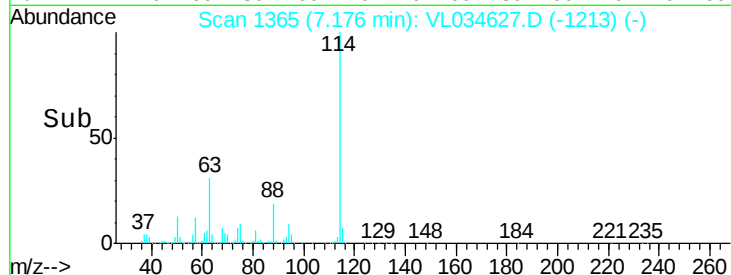
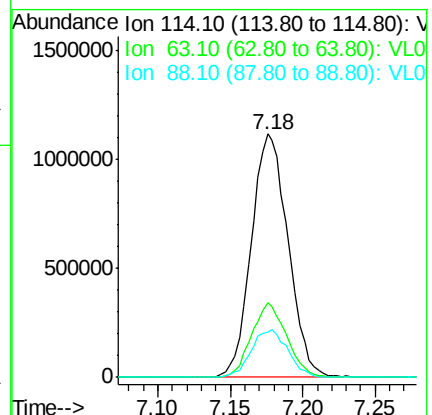
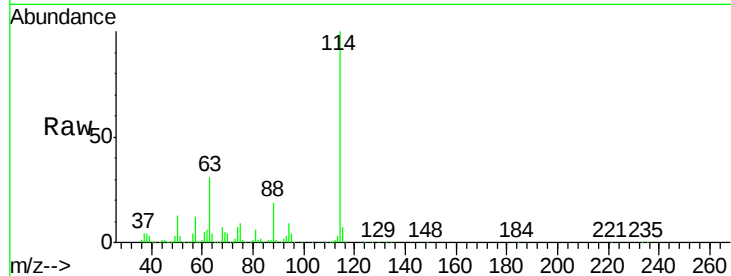
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.01 min
 Lab File: VL034627.D
 Acq: 18 Feb 2020 17:02

Instrument :
 MSVOA_L
 ClientSampleId :
 DC-IA

Tot Ion	Ratio	Lower	Upper
114	100		
63	29.4	24.1	36.1
88	19.7	15.9	23.9

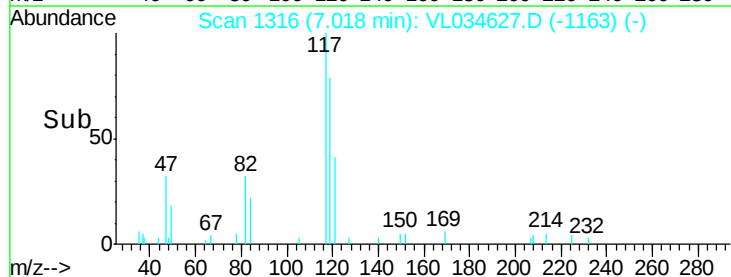
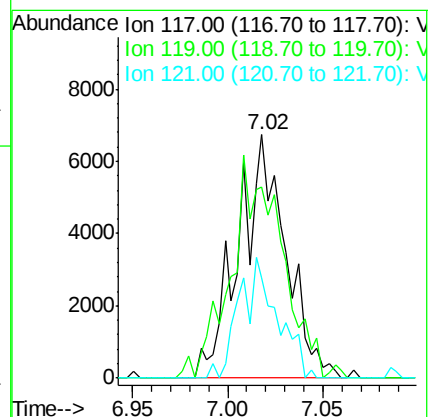
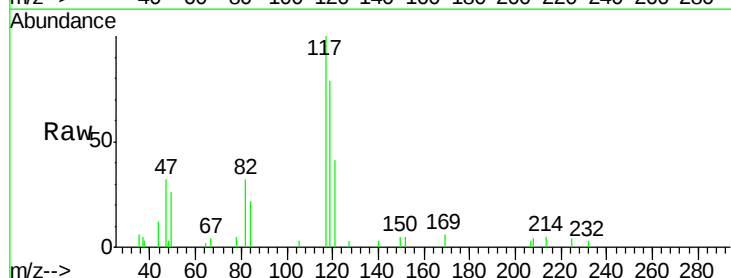
Manual Integrations
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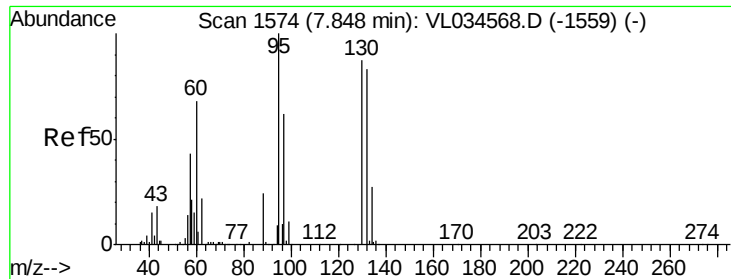
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#35
 Carbon Tetrachloride
 Concen: 0.062 ppbv m
 RT: 7.02 min Scan# 1316
 Delta R.T. -0.01 min
 Lab File: VL034627.D
 Acq: 18 Feb 2020 17:02

Tgt Ion	Ratio	Lower	Upper
117	100		
119	78.7	79.5	119.3#
121	41.2	26.2	39.2#





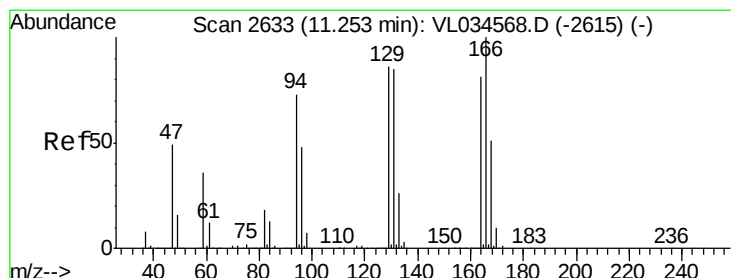
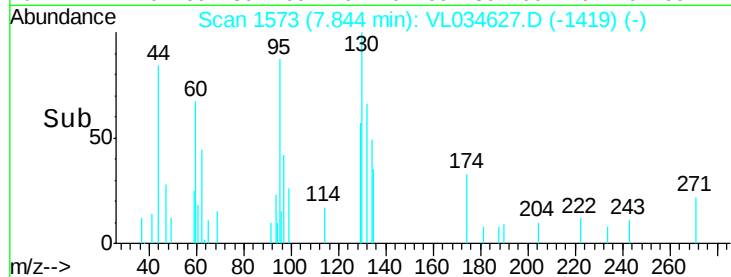
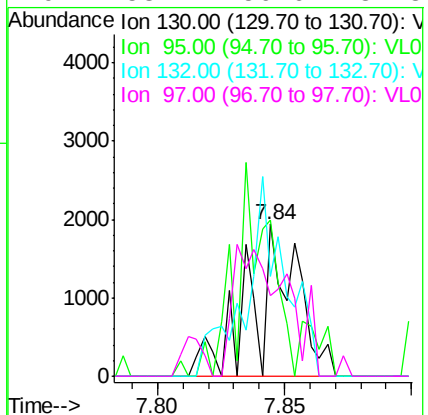
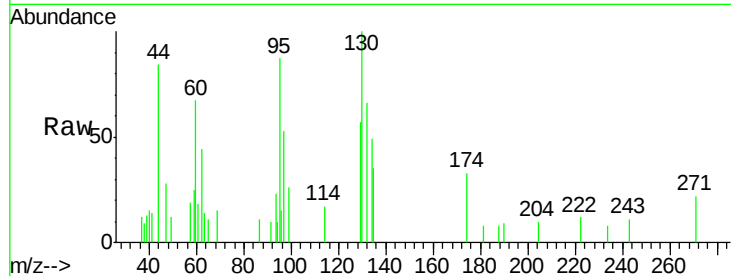
#38
 Trichloroethene
 Concen: 0.034 ppbv m
 RT: 7.84 min Scan# 1573
 Delta R.T. -0.00 min
 Lab File: VL034627.D
 Acq: 18 Feb 2020 17:02

Instrument :
 MSVOA_L
 ClientSampleId :
 DC-IA

Tot Ion	Ratio	Lower	Upper
130	100		
95	87.3	91.6	137.4#
132	65.6	76.1	114.1#
97	53.4	56.6	84.8#

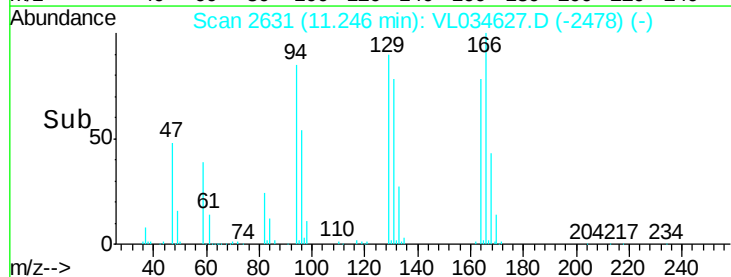
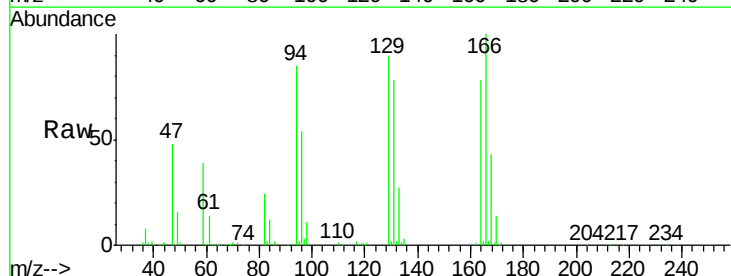
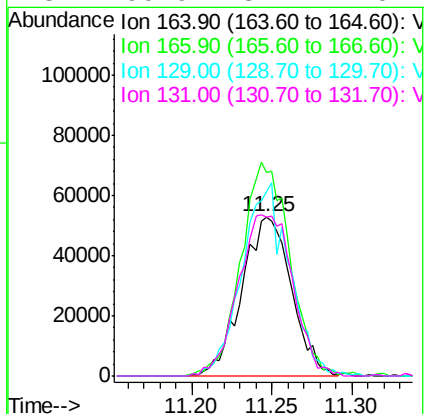
Manual Integrations
 APPROVED

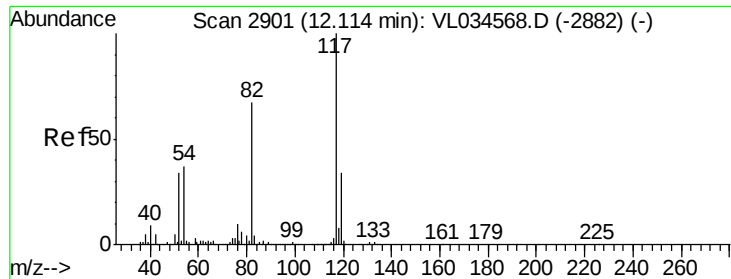
MMDadoda
 2/21/2020 3:25:46 PM



#52
 Tetrachloroethene
 Concen: 1.600 ppbv
 RT: 11.25 min Scan# 2631
 Delta R.T. -0.01 min
 Lab File: VL034627.D
 Acq: 18 Feb 2020 17:02

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.7	99.0	148.4
129	115.4	85.3	127.9
131	99.9	84.2	126.2





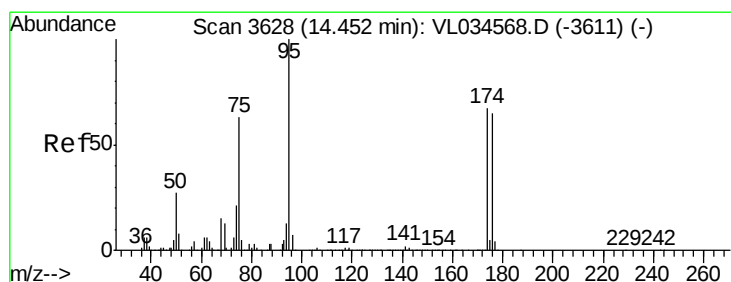
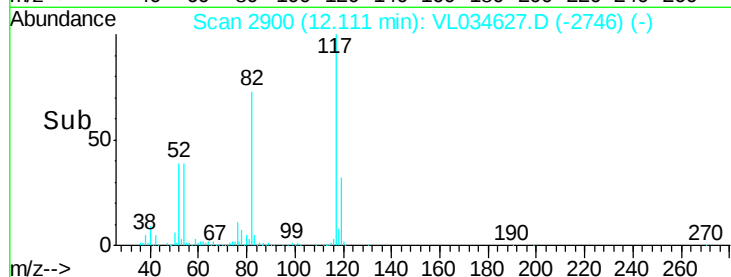
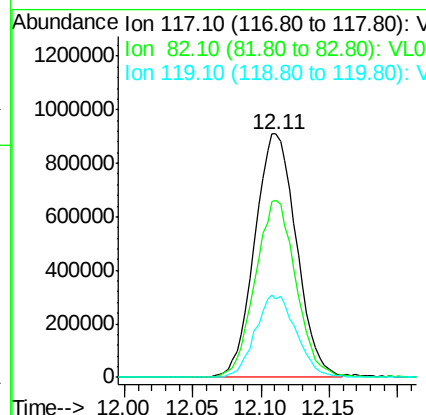
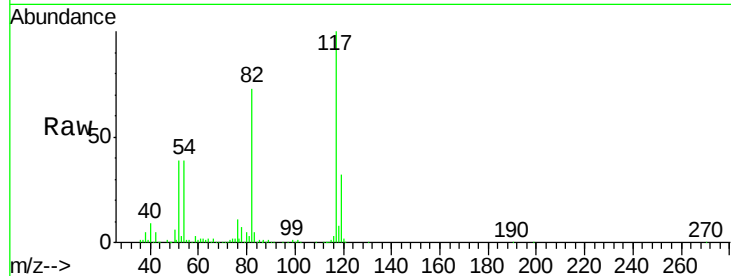
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2900
Delta R.T. -0.00 min
Lab File: VL034627.D
Acq: 18 Feb 2020 17:02

Instrument :
MSVOA_L
ClientSampleId :
DC-IA

Tot Ion	Ratio	Lower	Upper
117	100		
82	71.7	54.2	81.4
119	33.5	26.1	39.1

Manual Integrations
APPROVED

MMDadoda
2/21/2020 3:25:46 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.243 ppbv
RT: 14.45 min Scan# 3627
Delta R.T. -0.00 min
Lab File: VL034627.D
Acq: 18 Feb 2020 17:02

Tgt Ion	Ratio	Lower	Upper
95	100		
174	65.7	52.3	78.5
175	4.5	3.8	5.6

