

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031620\
 Data File : VL034909.D
 Acq On : 17 Mar 2020 3:16
 Operator : SY/AP
 Sample : L1924-08
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 FD-01

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Quant Time: Mar 17 12:07:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 0
 QLast Update : Mon Mar 09 16:42:53 2020
 Response via : Initial Calibration

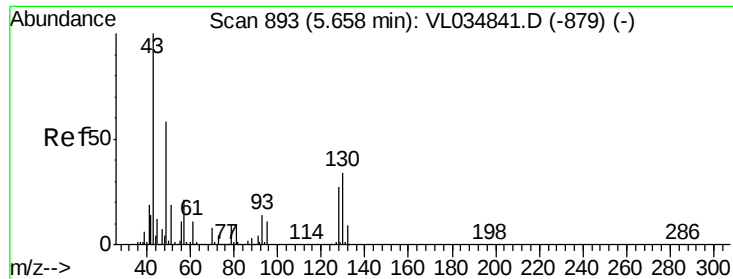
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	851472	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	1894668	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	1838573	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1501145	10.47	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.00	85	93085	0.798	ppbv #	84
3) Chlorodifluoromethane	2.95	51	31892m	0.335	ppbv	
9) Propene	2.97	41	13707m	0.302	ppbv	
11) Trichlorofluoromethane	3.92	101	35330m	0.285	ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.46	101	21824	0.251	ppbv	91
13) Ethanol	3.57	45	574148	41.586	ppbv	92
15) Acetone	3.81	43	1801438	16.323	ppbv	100
19) Isopropyl Alcohol	3.95	45	145553	2.089	ppbv #	37
20) Methylene Chloride	4.31	84	76055	2.180	ppbv	92
26) Hexane	5.67	57	56803	0.671	ppbv #	42
34) 2-Butanone	5.23	43	66647	0.529	ppbv	92
35) Carbon Tetrachloride	7.01	117	7481m	0.063	ppbv	
36) Benzene	6.88	78	43955	0.260	ppbv #	87
38) Trichloroethene	7.83	130	443783	6.919	ppbv	96
52) Tetrachloroethene	11.24	164	7183m	0.108	ppbv	
53) Toluene	9.81	91	272963m	1.400	ppbv	
59) m/p-Xylene	13.00	91	33760m	0.162	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.01 min

Lab File: VL034909.D

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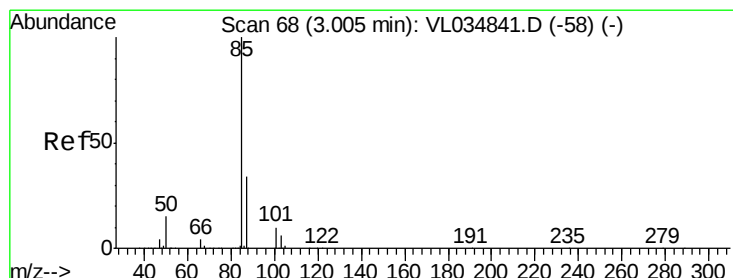
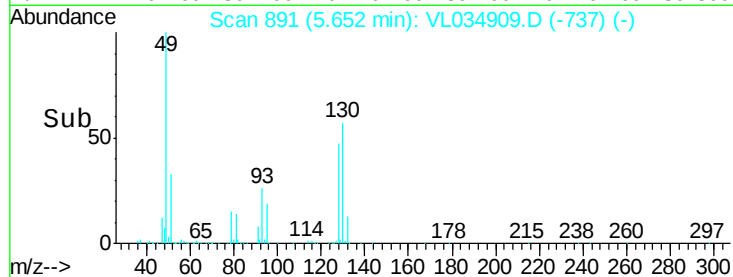
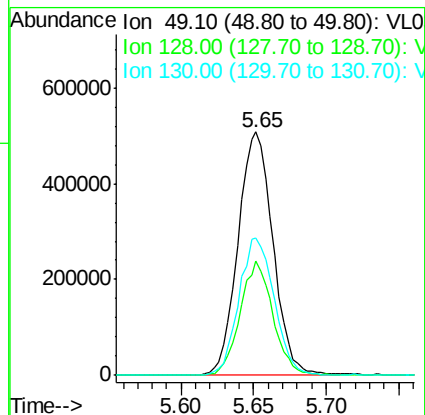
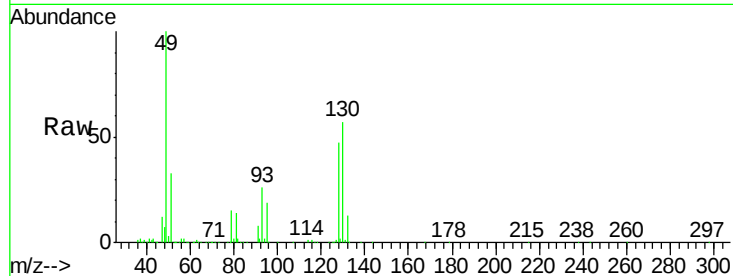
ClientSampleId :

FD-01

Tot Ion	Ratio	Lower	Upper
49	100		
128	44.2	23.4	70.3
130	57.6	30.0	90.0

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#2

Dichlorodifluoromethane

Concen: 0.798 ppbv

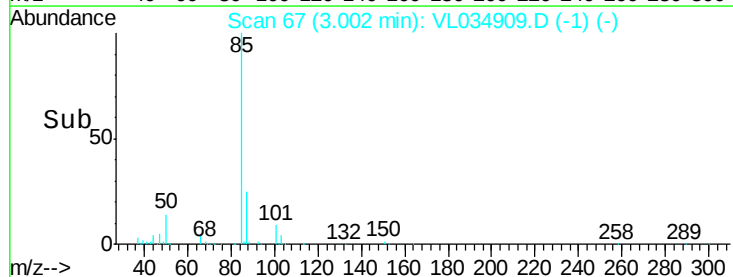
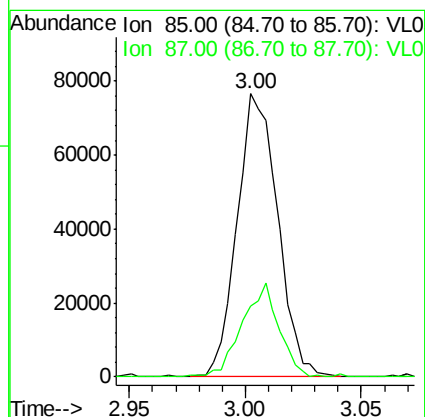
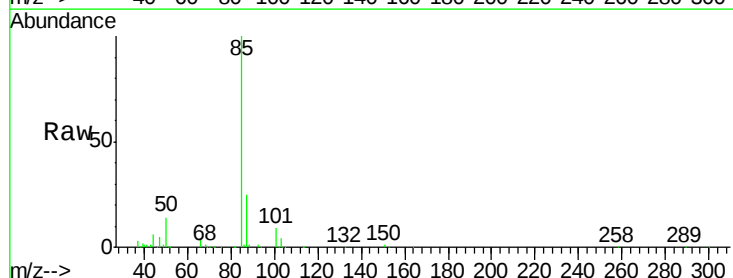
RT: 3.00 min Scan# 67

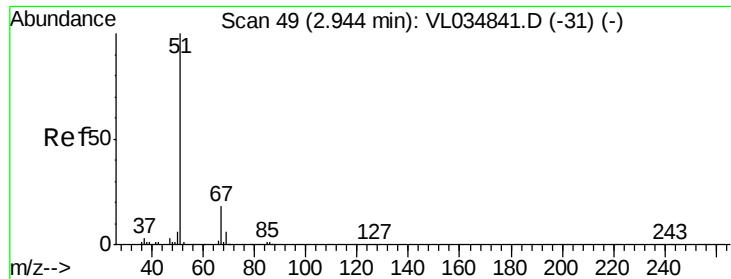
Delta R.T. -0.00 min

Lab File: VL034909.D

Acq: 17 Mar 2020 3:16

Tgt Ion	Ratio	Lower	Upper
85	100		
87	24.5	26.9	40.3





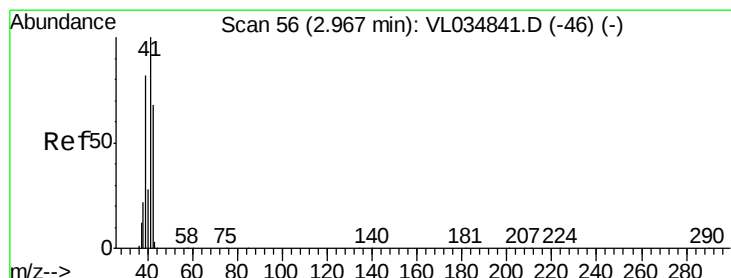
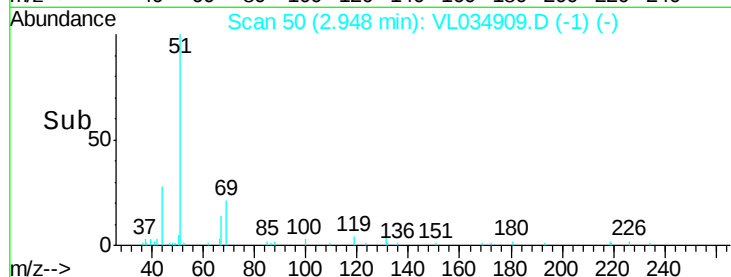
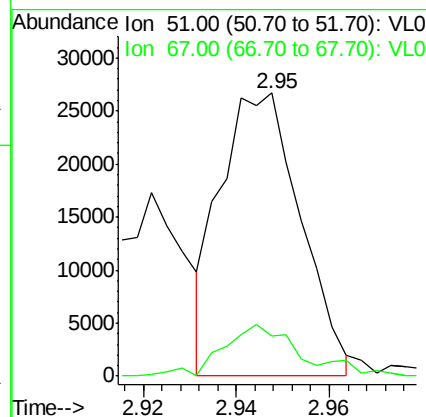
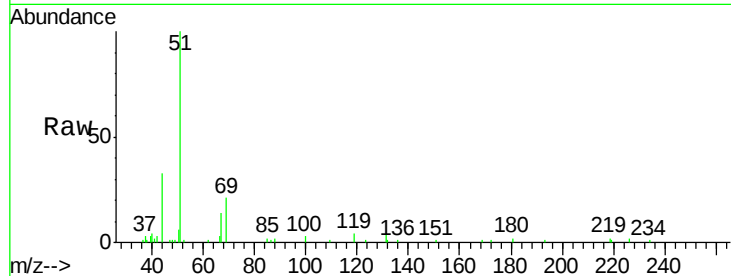
#3
 Chlorodifluoromethane
 Concen: 0.335 ppbv m
 RT: 2.95 min Scan# 50
 Delta R.T. 0.00 min
 Lab File: VL034909.D
 Acq: 17 Mar 2020 3:16

Instrument :
 MSVOA_L
 ClientSampleId :
 FD-01

Tot Ion	Ratio	Lower	Upper
51	100		
67	17.9	14.3	21.5

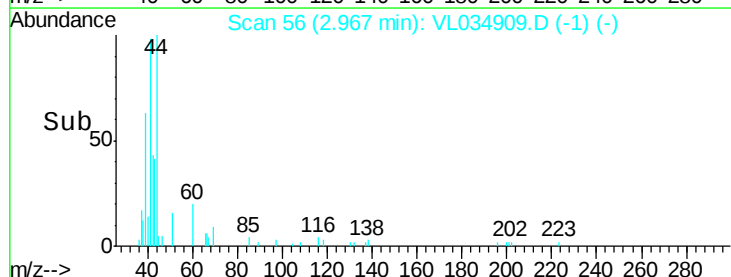
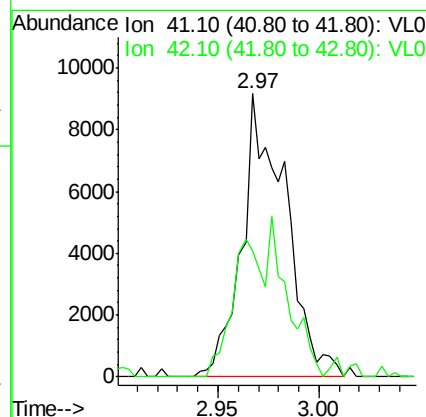
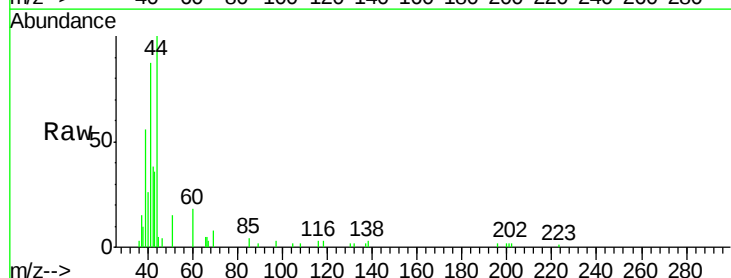
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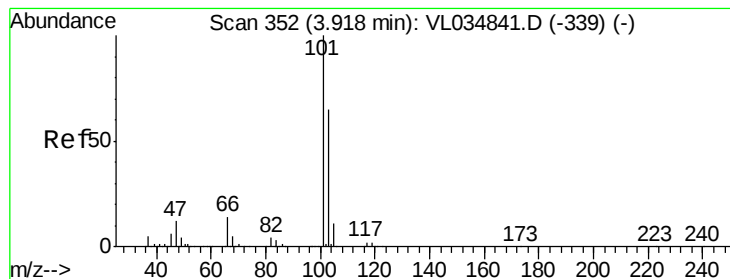
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#9
 Propene
 Concen: 0.302 ppbv m
 RT: 2.97 min Scan# 56
 Delta R.T. 0.00 min
 Lab File: VL034909.D
 Acq: 17 Mar 2020 3:16

Tgt Ion	Ratio	Lower	Upper
41	100		
42	0.0	55.2	82.8#





#11

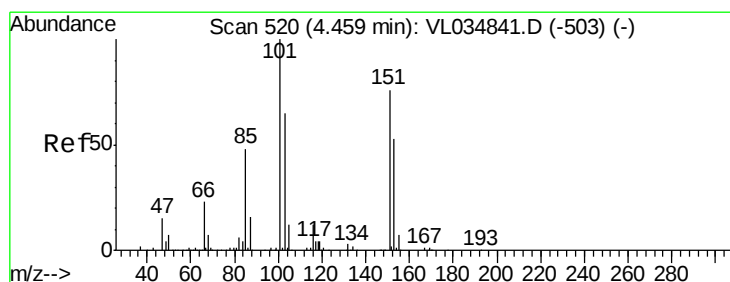
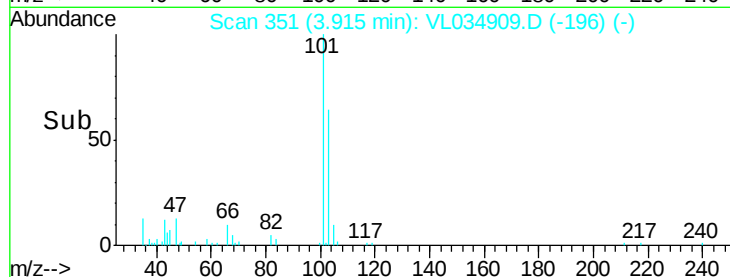
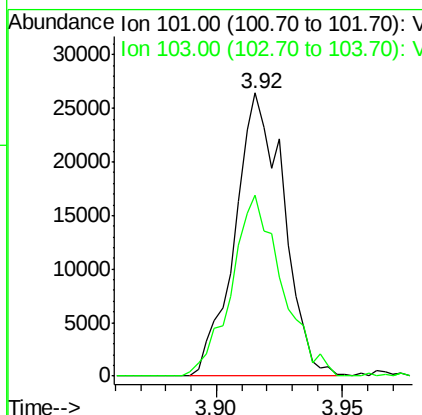
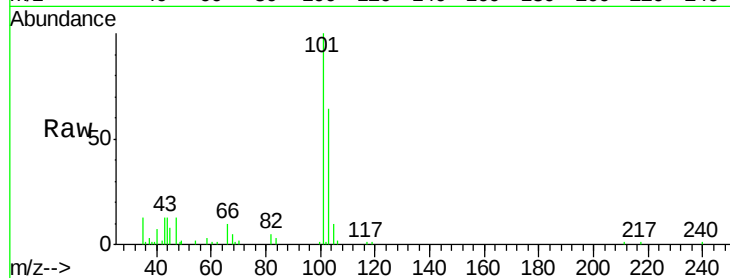
Trichlorofluoromethane
Concen: 0.285 ppbv m
RT: 3.92 min Scan# 351
Delta R.T. -0.00 min
Lab File: VL034909.D
Acq: 17 Mar 2020 3:16

Instrument :
MSVOA_L
ClientSampleId :
FD-01

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.0	51.8	77.8

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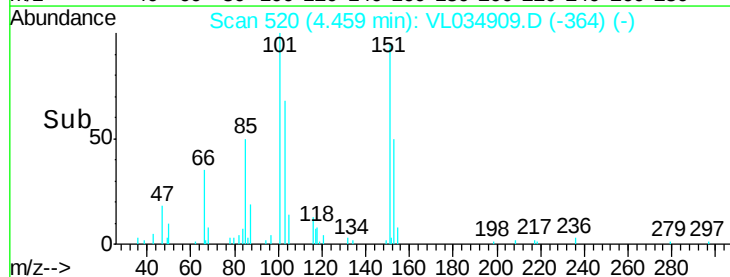
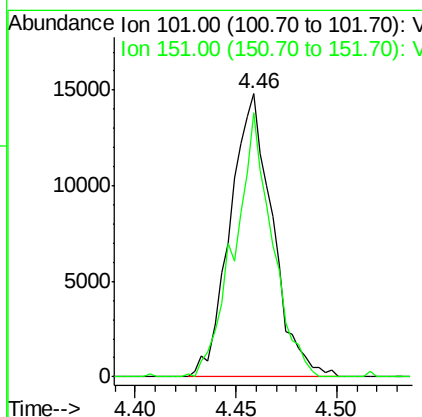
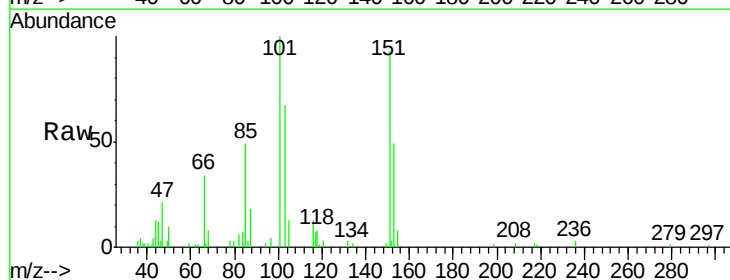
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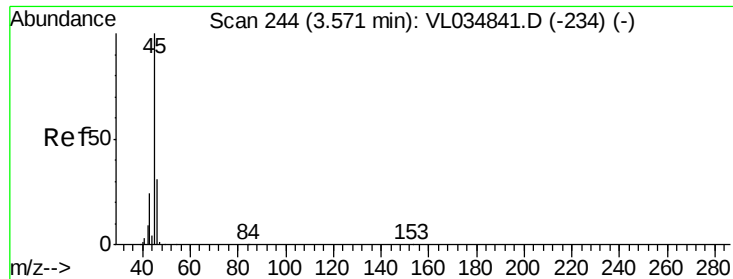


#12

1,1,2-Trichlorotrifluoroethane
Concen: 0.251 ppbv
RT: 4.46 min Scan# 520
Delta R.T. 0.00 min
Lab File: VL034909.D
Acq: 17 Mar 2020 3:16

Tgt Ion	Ratio	Lower	Upper
101	100		
151	83.7	60.8	91.2





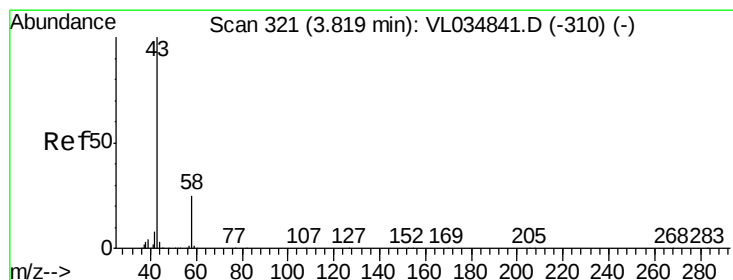
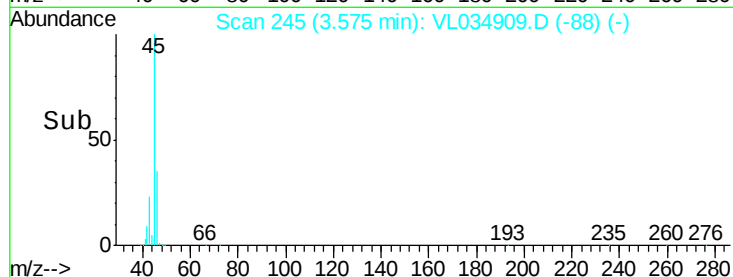
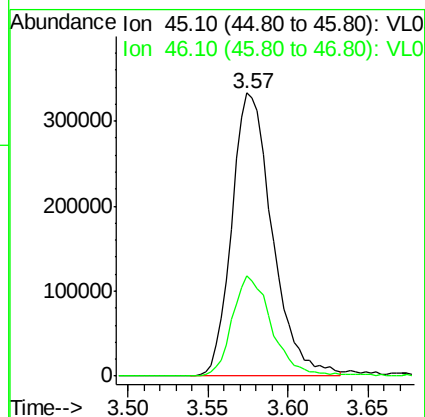
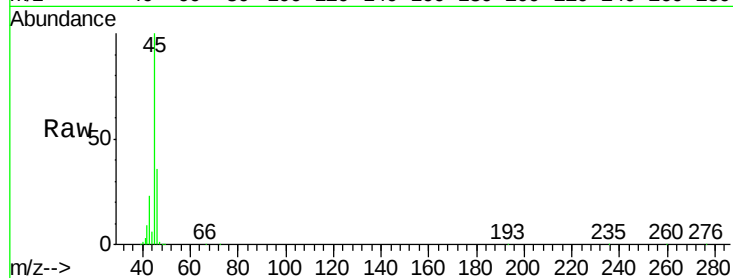
#13
Ethanol
Concen: 41.586 ppbv
RT: 3.57 min Scan# 245
Delta R.T. 0.00 min
Lab File: VL034909.D
Acq: 17 Mar 2020 3:16

Instrument :
MSVOA_L
ClientSampleId :
FD-01

Tot Ion: 45 Resp: 574148
Ion Ratio Lower Upper
45 100
46 35.0 16.0 64.0

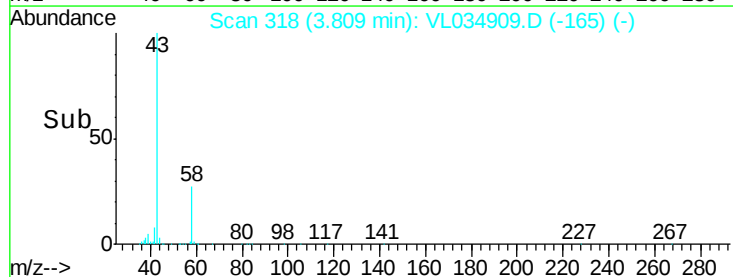
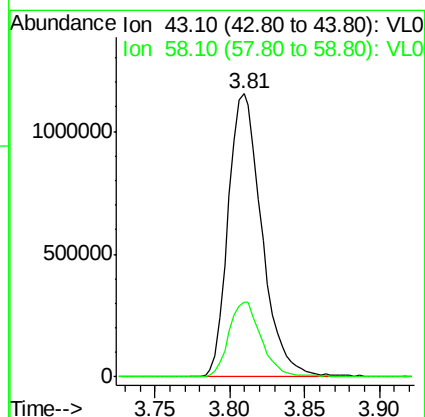
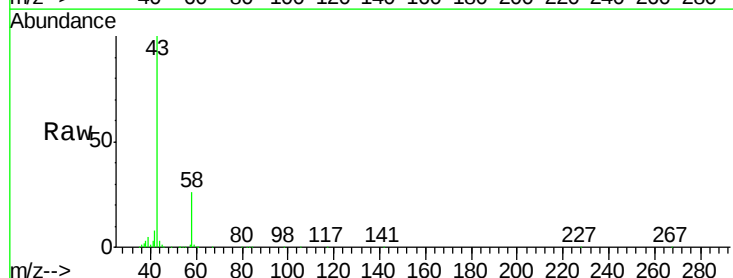
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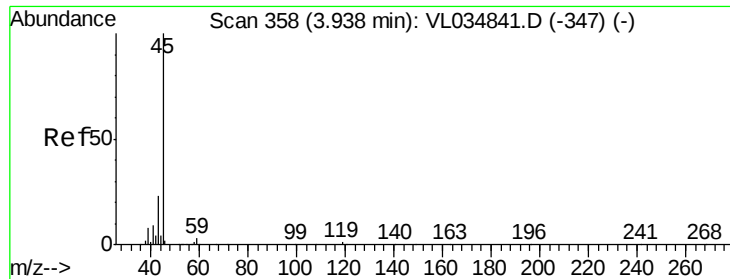
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#15
Acetone
Concen: 16.323 ppbv
RT: 3.81 min Scan# 318
Delta R.T. -0.01 min
Lab File: VL034909.D
Acq: 17 Mar 2020 3:16

Tgt Ion: 43 Resp: 1801438
Ion Ratio Lower Upper
43 100
58 26.1 21.0 31.6





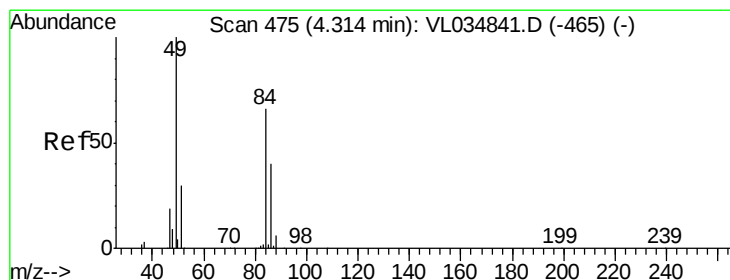
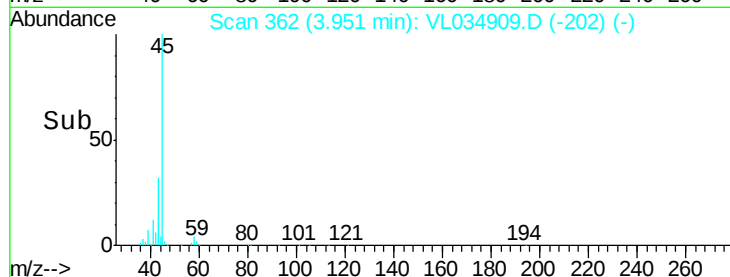
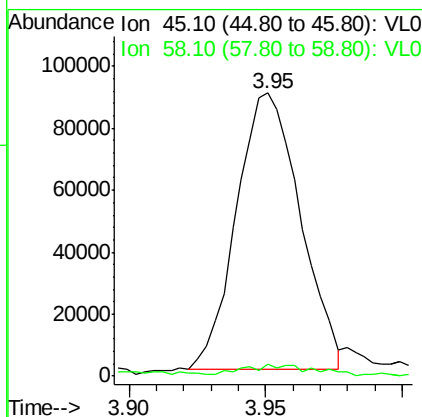
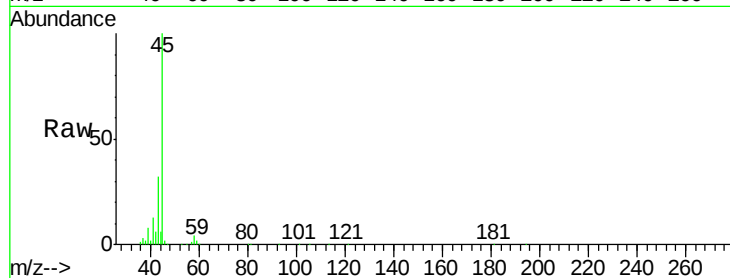
#19
Isopropyl Alcohol
Concen: 2.089 ppbv
RT: 3.95 min Scan# 362
Delta R.T. 0.01 min
Lab File: VL034909.D
Acq: 17 Mar 2020 3:16

Instrument :
MSVOA_L
ClientSampled :
FD-01

Tot Ion	Ratio	Lower	Upper
45	100		
58	0.0	30.5	45.7#

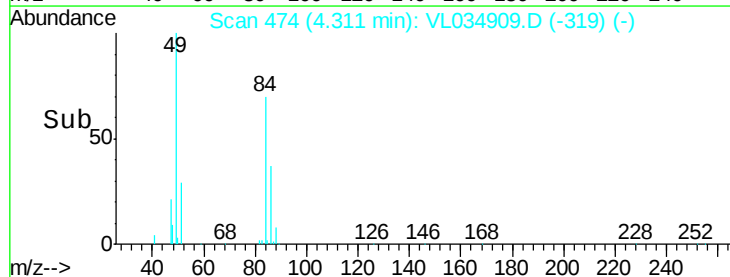
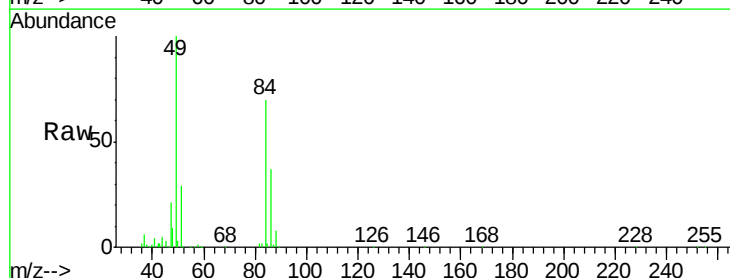
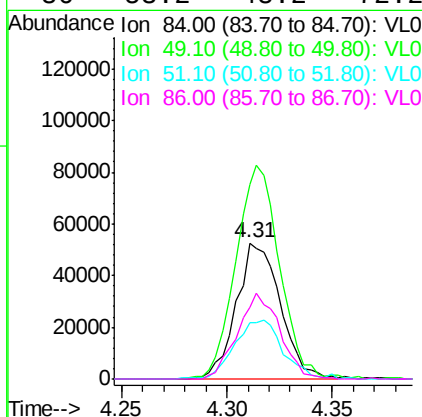
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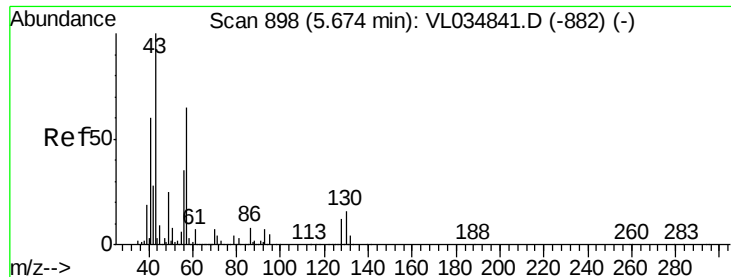
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#20
Methylene Chloride
Concen: 2.180 ppbv
RT: 4.31 min Scan# 474
Delta R.T. -0.00 min
Lab File: VL034909.D
Acq: 17 Mar 2020 3:16

Tgt Ion	Ratio	Lower	Upper
84	100		
49	142.3	121.5	182.3
51	40.7	36.6	55.0
86	53.2	48.2	72.2





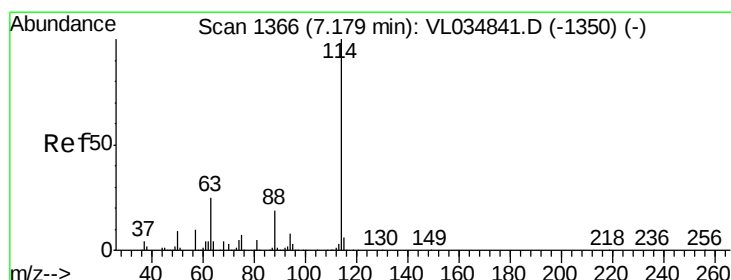
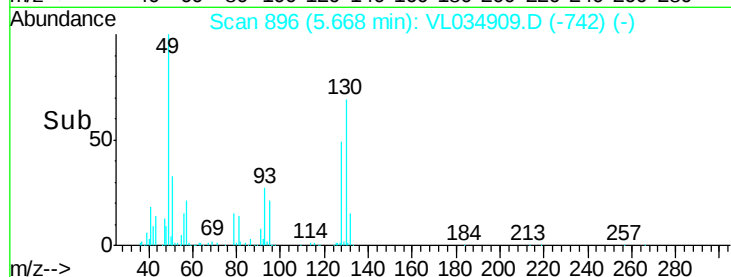
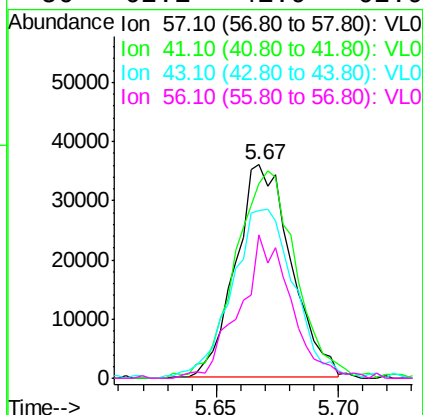
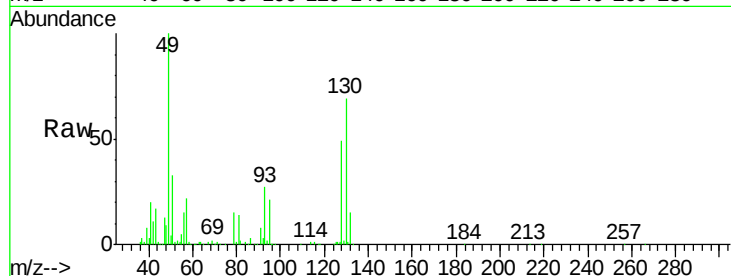
#26
Hexane
Concen: 0.671 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.01 min
Lab File: VL034909.D
Acq: 17 Mar 2020 3:16

Instrument :
MSVOA_L
ClientSampled :
FD-01

Tot Ion	Ratio	Lower	Upper
57	100		
41	107.2	72.6	109.0
43	89.5	183.8	275.6#
56	62.1	41.9	62.9

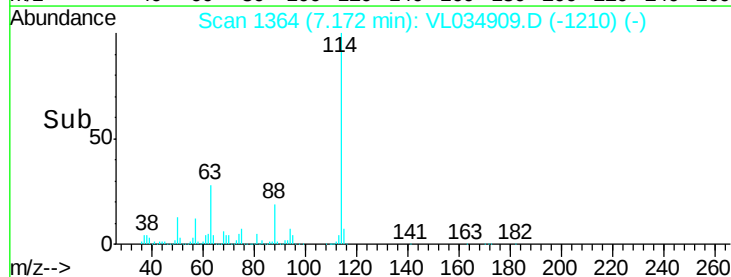
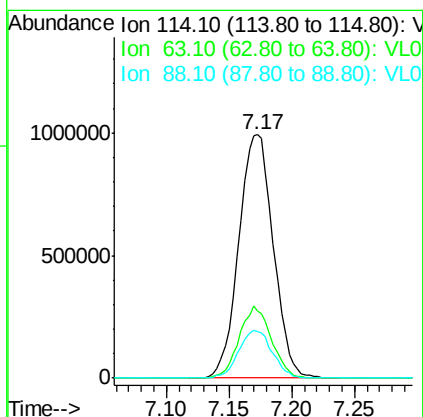
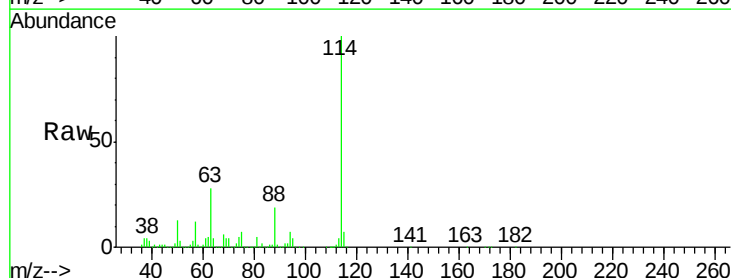
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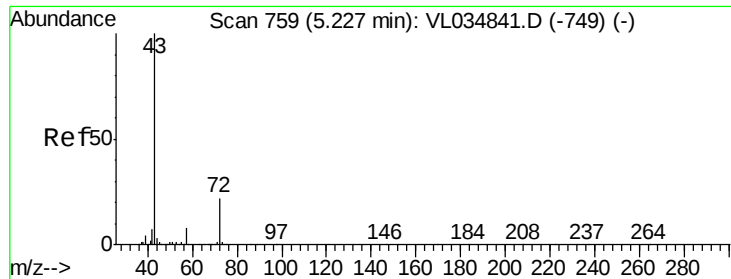
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.01 min
Lab File: VL034909.D
Acq: 17 Mar 2020 3:16

Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.8	20.6	31.0
88	19.2	15.0	22.6





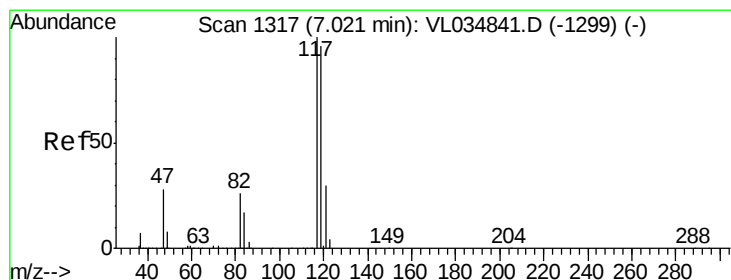
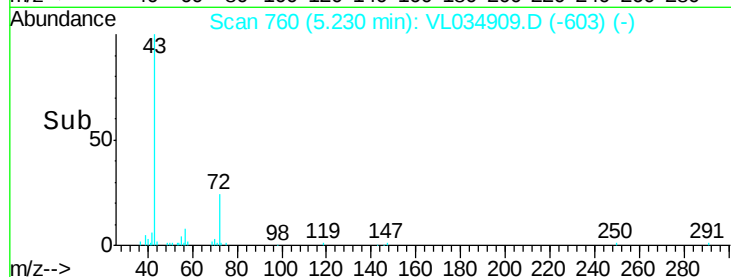
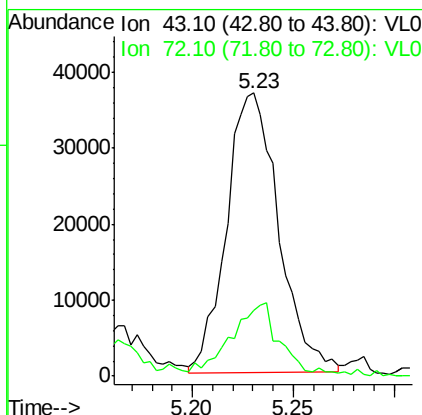
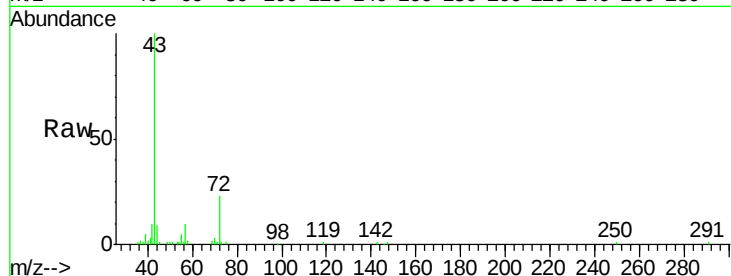
#34
2-Butanone
Concen: 0.529 ppbv
RT: 5.23 min Scan# 760
Delta R.T. 0.00 min
Lab File: VL034909.D
Acq: 17 Mar 2020 3:16

Instrument :
MSVOA_L
ClientSampleId :
FD-01

Tot Ion: 43 Resp: 66647
Ion Ratio Lower Upper
43 100
72 25.9 17.6 26.4

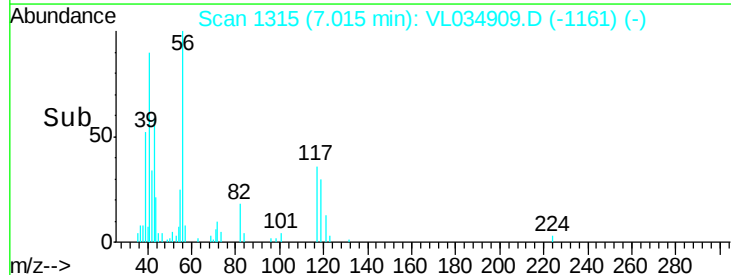
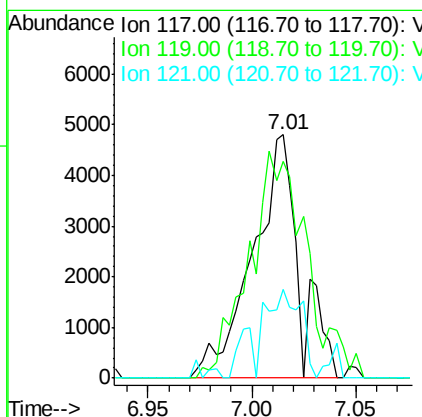
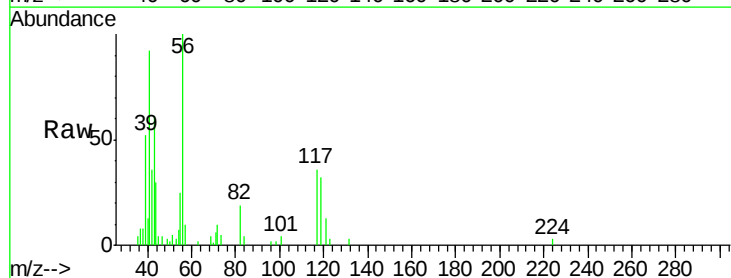
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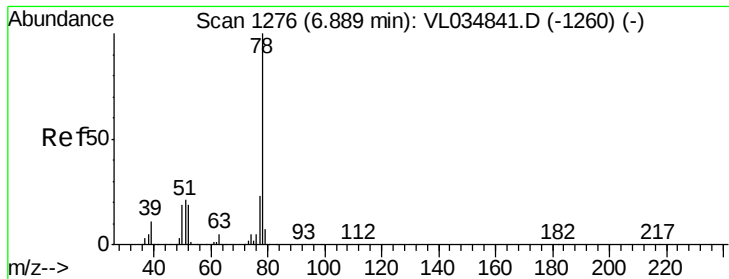
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#35
Carbon Tetrachloride
Concen: 0.063 ppbv m
RT: 7.01 min Scan# 1315
Delta R.T. -0.01 min
Lab File: VL034909.D
Acq: 17 Mar 2020 3:16

Tgt Ion: 117 Resp: 7481
Ion Ratio Lower Upper
117 100
119 88.9 77.0 115.4
121 36.4 24.0 36.0#





#36

Benzene

Concen: 0.260 ppbv

RT: 6.88 min Scan# 1274

Delta R.T. -0.01 min

Lab File: VL034909.D

Acq: 17 Mar 2020 3:16

Instrument :

MSVOA_L

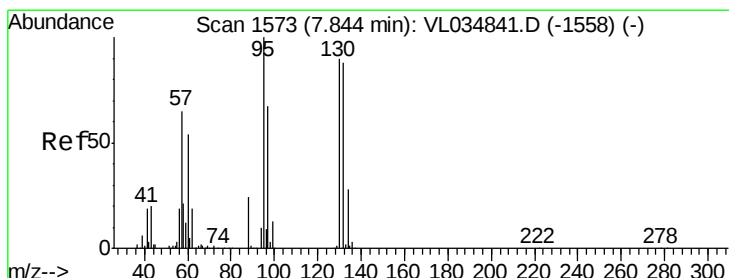
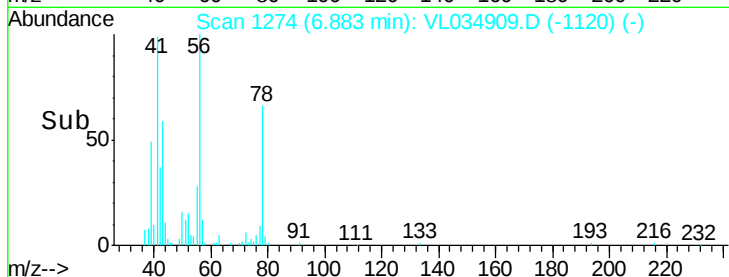
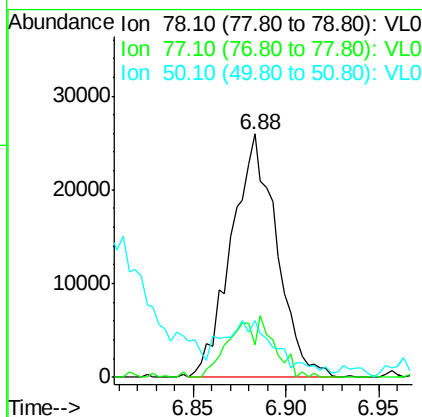
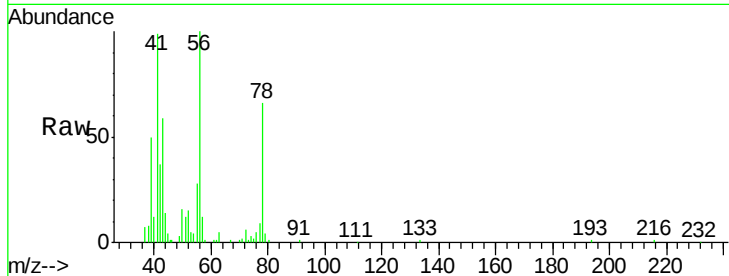
ClientSampleId :

FD-01

Tot Ion:	78	Resp:	43955
Ion Ratio	Lower	Upper	
78	100		
77	13.1	18.2	27.2#
50	21.4	15.2	22.8

Manual Integrations
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#38

Trichloroethene

Concen: 6.919 ppbv

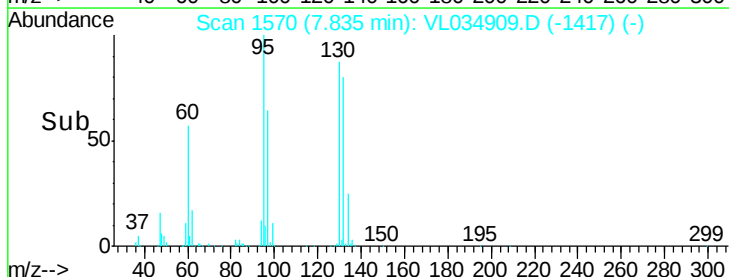
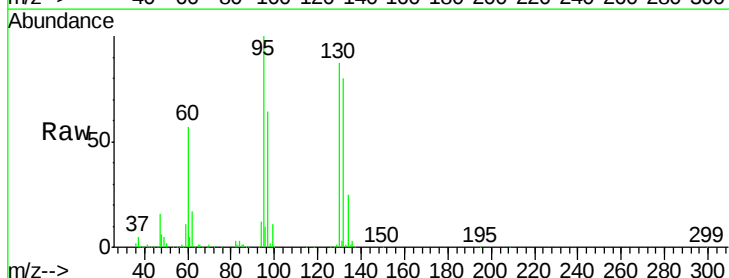
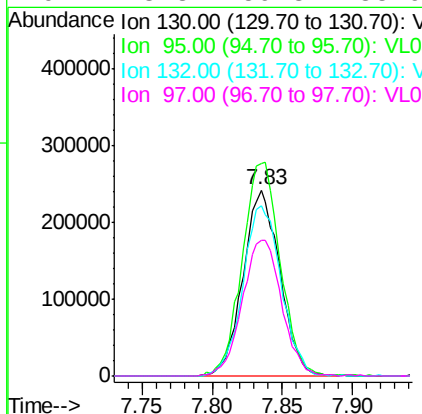
RT: 7.83 min Scan# 1570

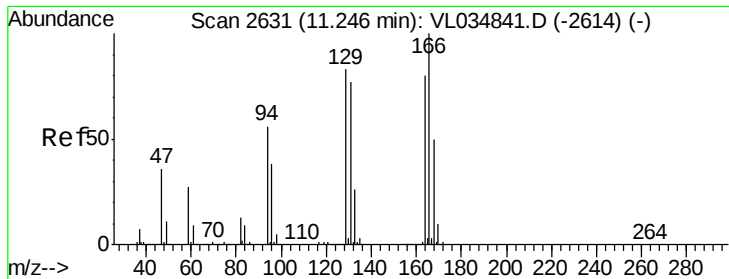
Delta R.T. -0.01 min

Lab File: VL034909.D

Acq: 17 Mar 2020 3:16

Tgt Ion:	130	Resp:	443783
Ion Ratio	Lower	Upper	
130	100		
95	114.5	88.5	132.7
132	91.4	78.0	117.0
97	73.3	59.3	88.9





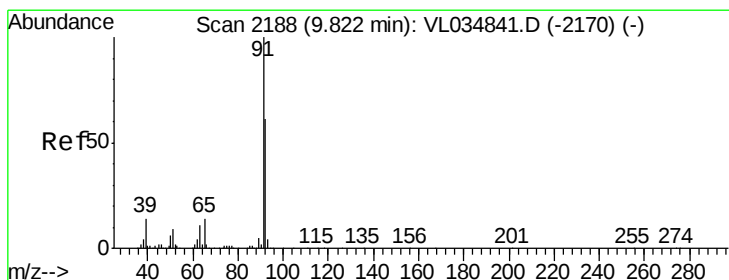
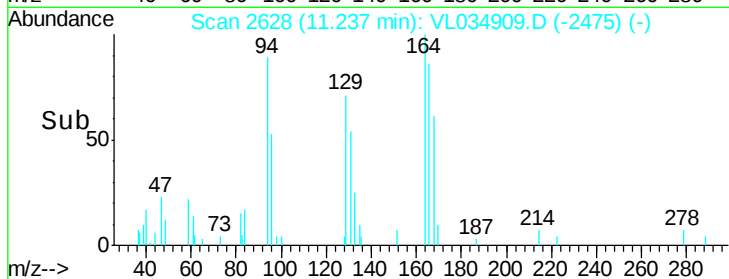
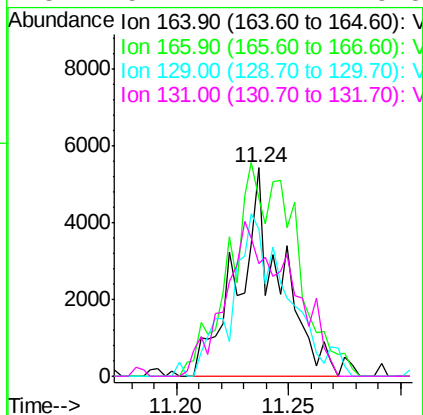
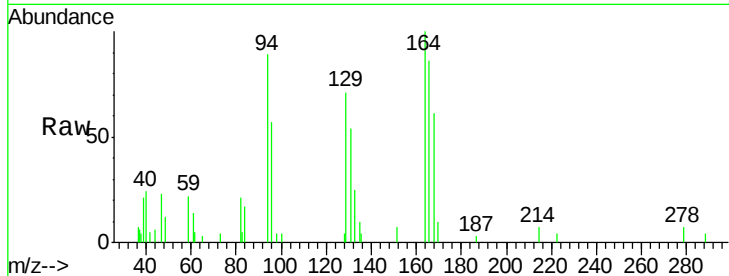
#52
Tetrachloroethene
Concen: 0.108 ppbv m
RT: 11.24 min Scan# 2628
Delta R.T. -0.01 min
Lab File: VL034909.D
Acq: 17 Mar 2020 3:16

Instrument :
MSVOA_L
ClientSampled :
FD-01

Tot Ion	Ratio	Lower	Upper
164	100		
166	85.7	100.0	150.0#
129	70.8	83.1	124.7#
131	54.4	77.2	115.8#

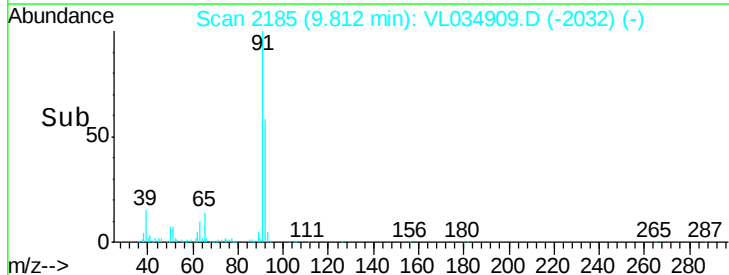
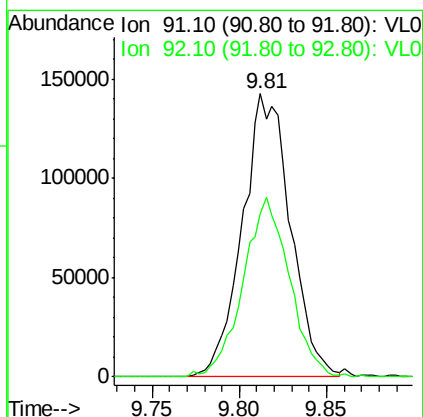
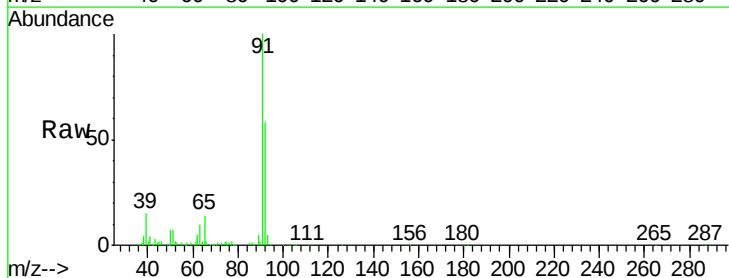
Manual Integrations
APPROVED

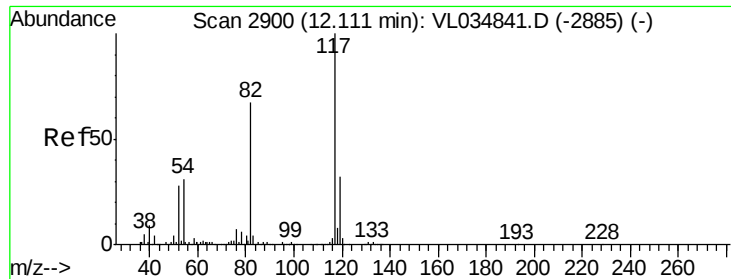
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#53
Toluene
Concen: 1.400 ppbv m
RT: 9.81 min Scan# 2185
Delta R.T. -0.01 min
Lab File: VL034909.D
Acq: 17 Mar 2020 3:16

Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	48.6	72.8#





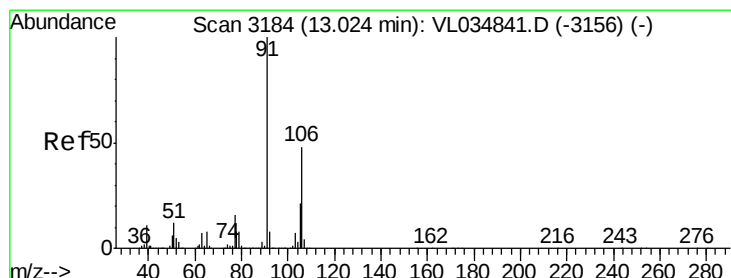
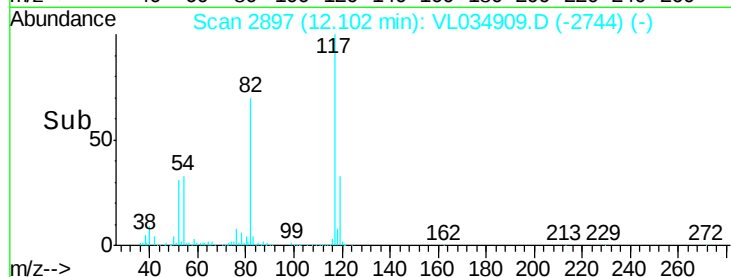
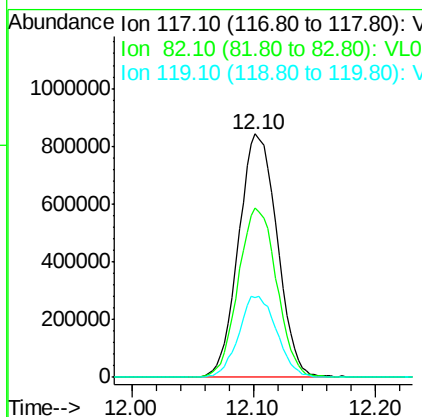
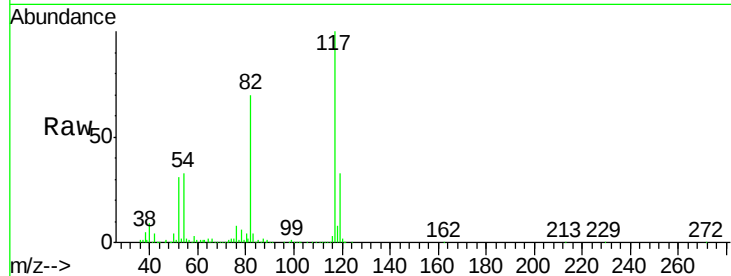
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2897
Delta R.T. -0.01 min
Lab File: VL034909.D
Acq: 17 Mar 2020 3:16

Instrument :
MSVOA_L
ClientSampled :
FD-01

Tot Ion:117 Resp: 1838573
Ion Ratio Lower Upper
117 100
82 69.5 51.1 76.7
119 32.9 27.3 40.9

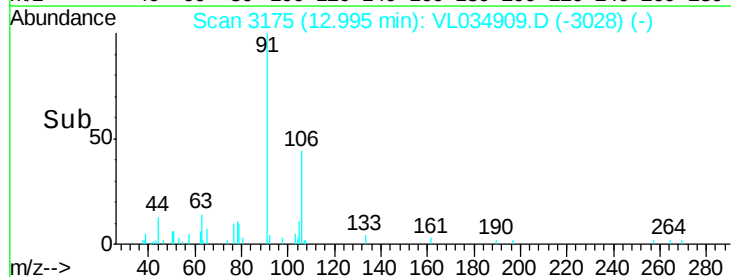
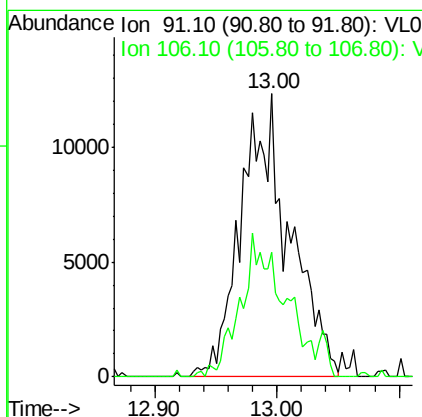
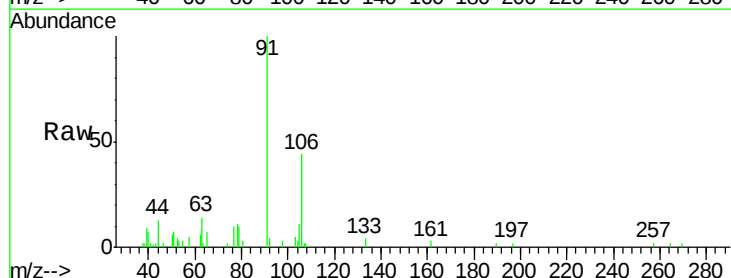
Manual Integrations
APPROVED

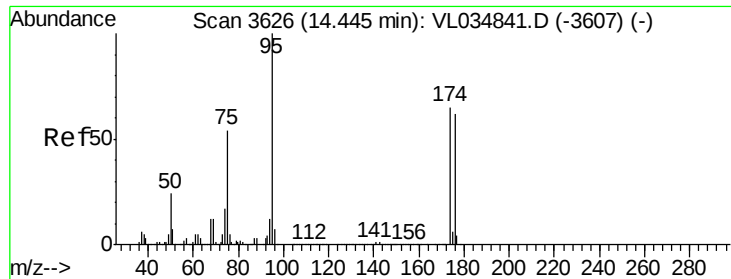
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#59
m/p-Xylene
Concen: 0.162 ppbv m
RT: 13.00 min Scan# 3175
Delta R.T. -0.03 min
Lab File: VL034909.D
Acq: 17 Mar 2020 3:16

Tgt Ion: 91 Resp: 33760
Ion Ratio Lower Upper
91 100
106 0.0 37.1 55.7#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.469 ppbv
 RT: 14.44 min Scan# 3623
 Delta R.T. -0.01 min
 Lab File: VL034909.D
 Acq: 17 Mar 2020 3:16

Instrument :
 MSVOA_L
 ClientSampleID :
 FD-01

Tot Ion: 95 Resp: 1501145
 Ion Ratio Lower Upper
 95 100
 174 65.0 55.2 82.8
 175 4.6 4.3 6.5

Manual Integrations
 APPROVED

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