

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040621\
 Data File : VL036720.D
 Acq On : 7 Apr 2021 8:20
 Operator : SY/AP
 Sample : M1929-01
 Misc : 400mL/MSVOA L
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 FS-SV1-FIELD

Quant Time: Apr 08 01:29:00 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1250248	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2966196	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2651439	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2047656	9.69	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.90%

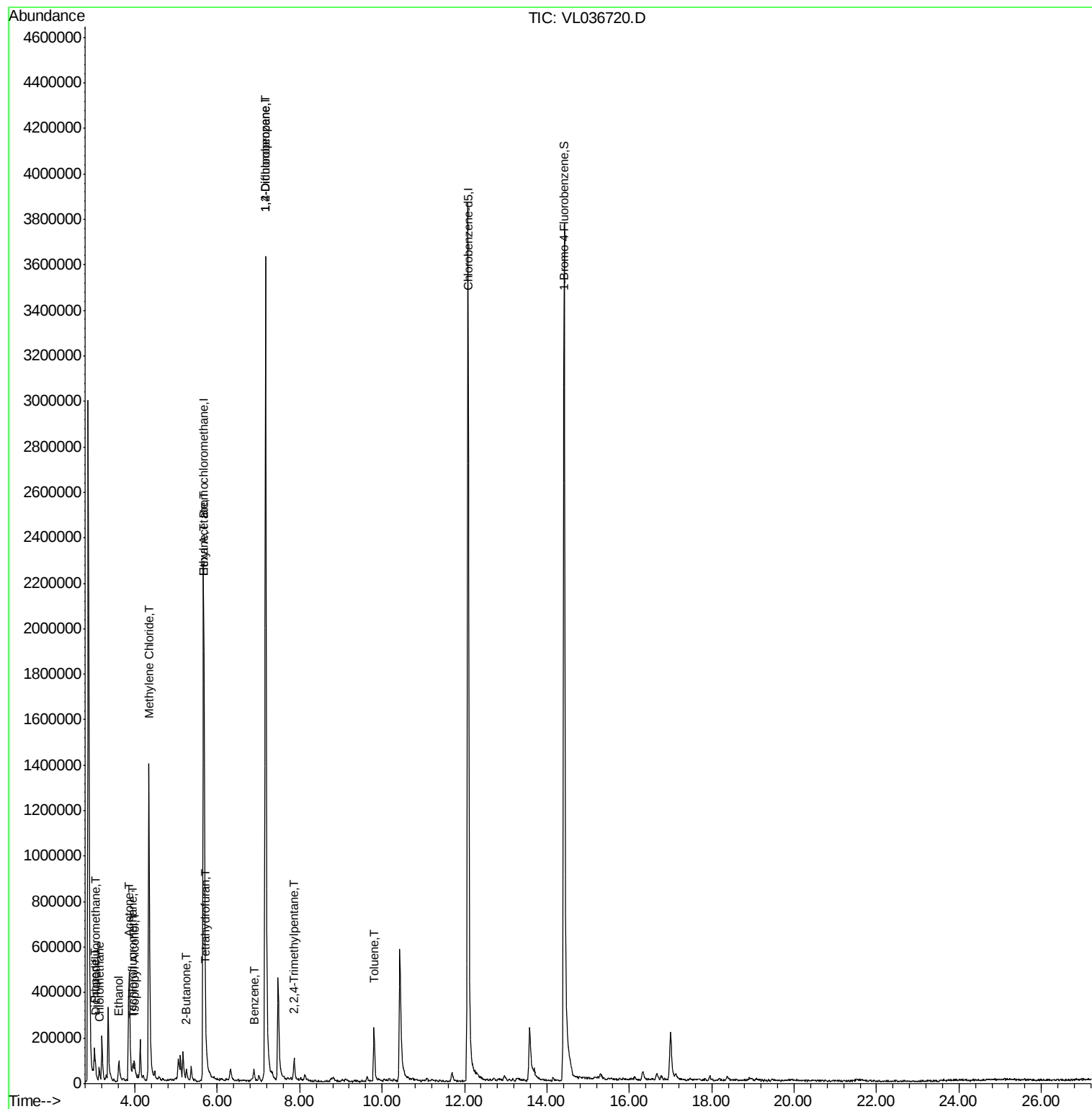
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	44598	0.219	ppbv #	77
4) Chloromethane	3.13	50	51354	0.622	ppbv #	86
9) Propene	3.02	41	31527	0.423	ppbv	92
11) Trichlorofluoromethane	3.95	101	41297	0.199	ppbv	85
13) Ethanol	3.61	45	57728	6.510	ppbv #	34
15) Acetone	3.85	43	578371	4.700	ppbv	97
19) Isopropyl Alcohol	3.99	45	78590	1.161	ppbv #	89
20) Methylene Chloride	4.34	84	536895	9.319	ppbv	93
25) Ethyl Acetate	5.68	43	241710	0.826	ppbv #	81
26) Hexane	5.68	57	314433	2.316	ppbv #	47
34) 2-Butanone	5.24	43	19474	0.134	ppbv #	55
36) Benzene	6.89	78	23078	0.084	ppbv #	87
39) 1,2-Dichloropropane	7.17	63	778995	7.020	ppbv #	24
41) Tetrahydrofuran	5.72	42	3995	0.060	ppbv #	46
44) 2,2,4-Trimethylpentane	7.86	57	37179	0.077	ppbv #	40
53) Toluene	9.80	91	95390	0.327	ppbv #	32

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

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QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.01 min

Lab File: VL036720.D

Acq: 7 Apr 2021 8:20

Instrument :

MSVOA_L

ClientSampleId :

FS-SV1-FIELD

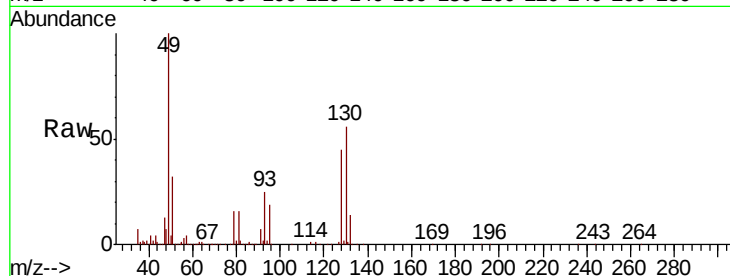
Tot Ion: 49 Resp: 1250248

Ion Ratio Lower Upper

49 100

128 45.3 23.5 70.6

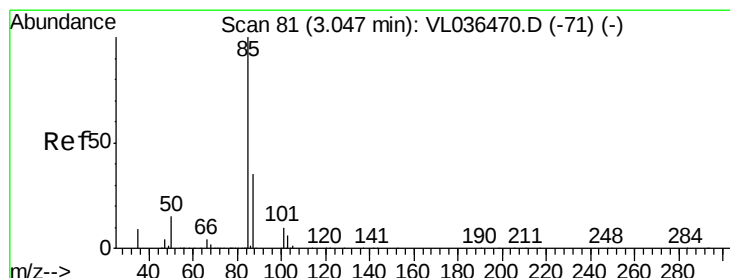
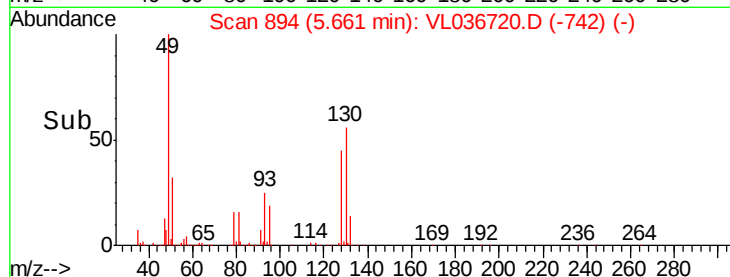
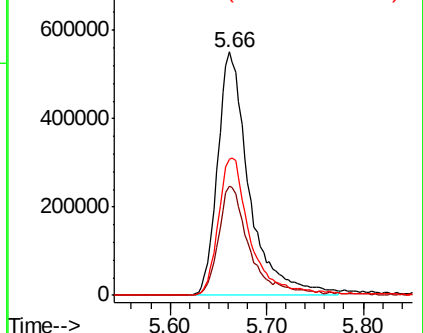
130 57.8 29.1 87.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.219 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL036720.D

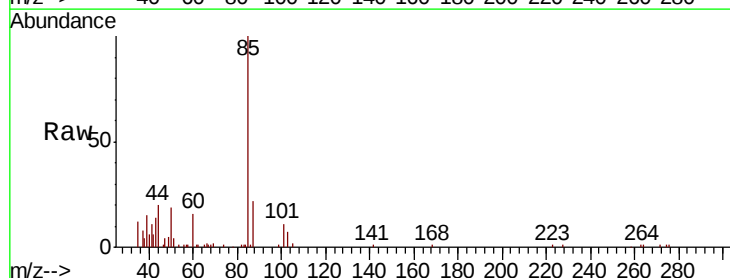
Acq: 7 Apr 2021 8:20

Tgt Ion: 85 Resp: 44598

Ion Ratio Lower Upper

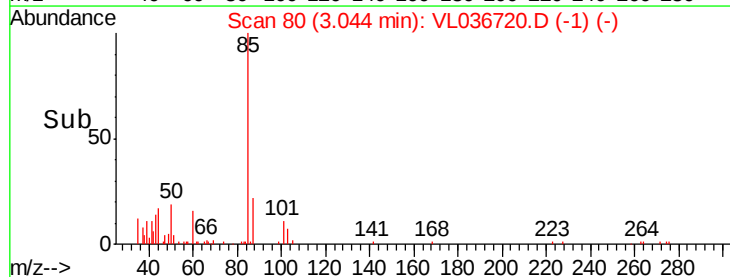
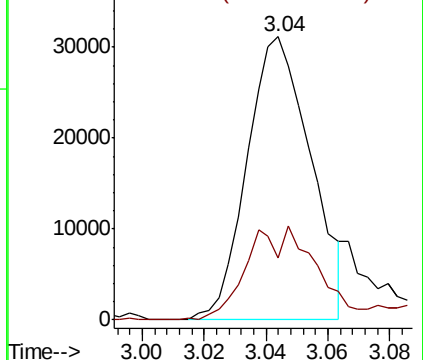
85 100

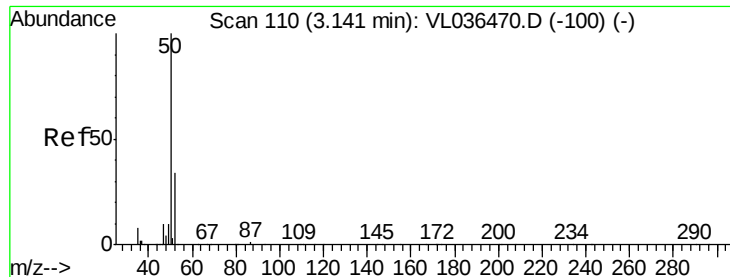
87 21.2 27.8 41.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.622 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL036720.D

Acq: 7 Apr 2021 8:20

Instrument :

MSVOA_L

ClientSampleId :

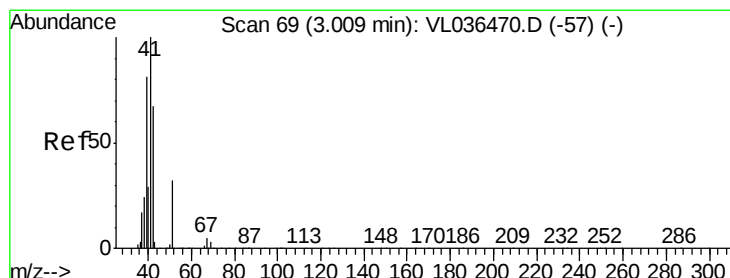
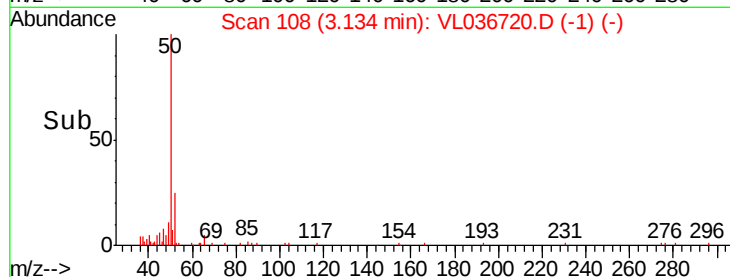
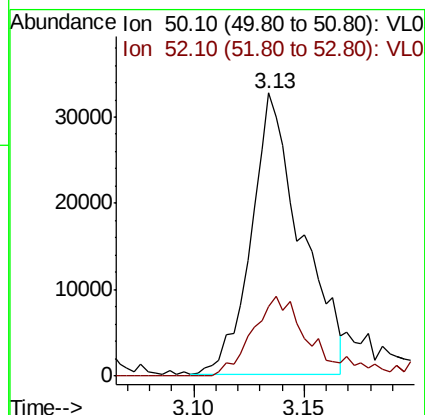
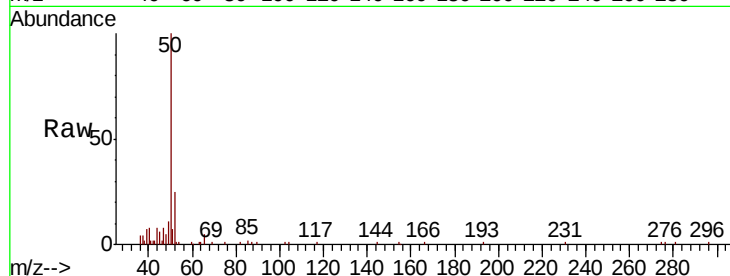
FS-SV1-FIELD

Tot Ion: 50 Resp: 51354

Ion Ratio Lower Upper

50 100

52 26.0 27.0 40.6#



#9

Propene

Concen: 0.423 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL036720.D

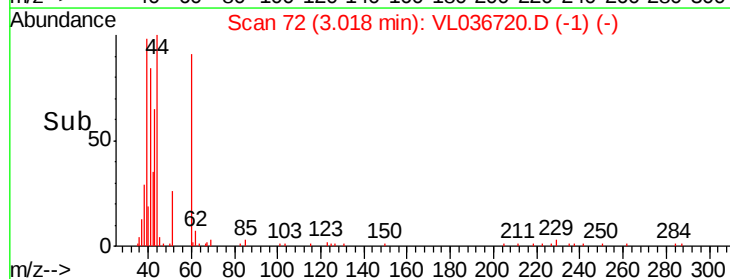
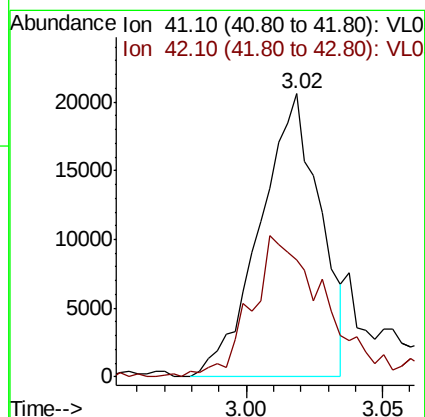
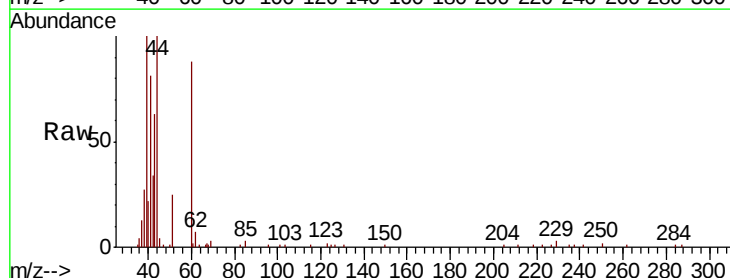
Acq: 7 Apr 2021 8:20

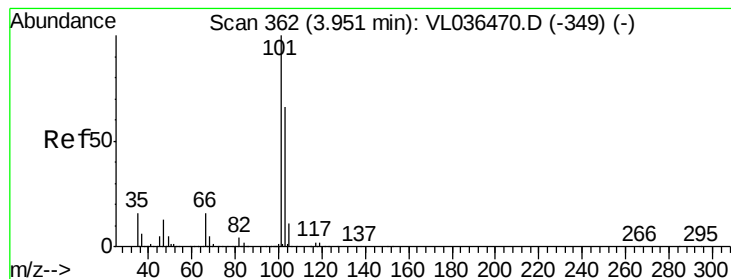
Tgt Ion: 41 Resp: 31527

Ion Ratio Lower Upper

41 100

42 65.0 57.0 85.4





#11

Trichlorofluoromethane

Concen: 0.199 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.00 min

Lab File: VL036720.D

Acq: 7 Apr 2021 8:20

Instrument :

MSVOA_L

ClientSampleId :

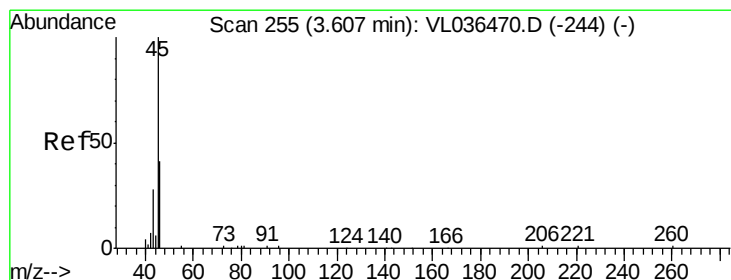
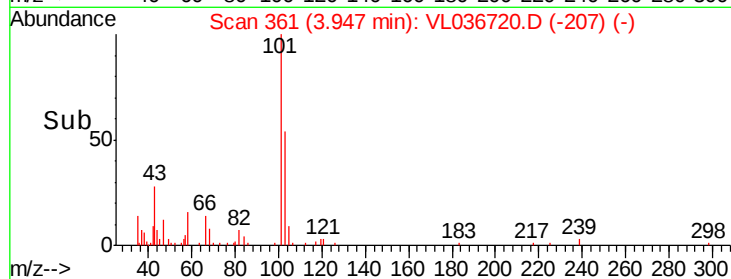
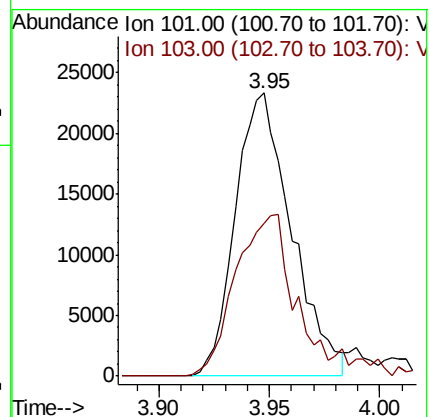
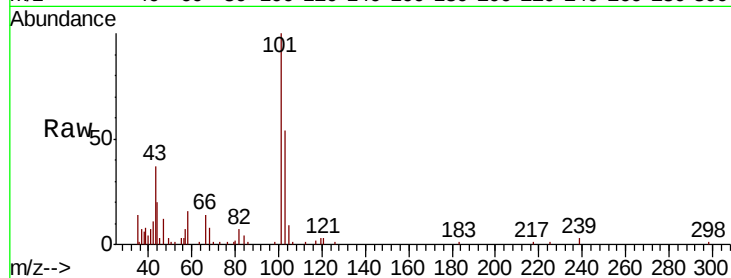
FS-SV1-FIELD

Tot Ion:101 Resp: 41297

Ion Ratio Lower Upper

101 100

103 53.4 52.5 78.7



#13

Ethanol

Concen: 6.510 ppbv

RT: 3.61 min Scan# 256

Delta R.T. 0.00 min

Lab File: VL036720.D

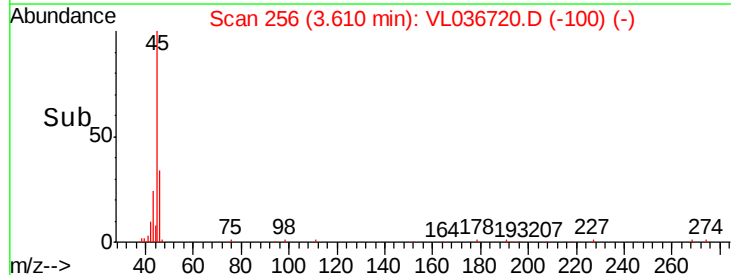
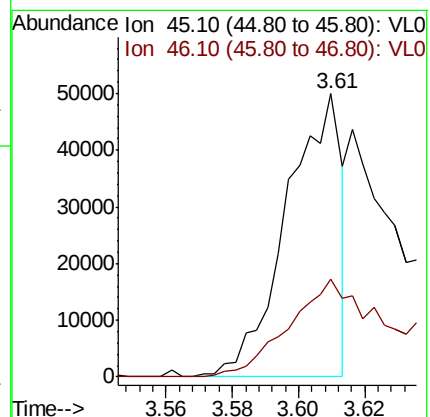
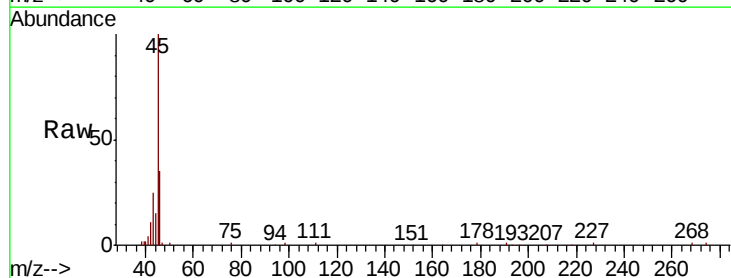
Acq: 7 Apr 2021 8:20

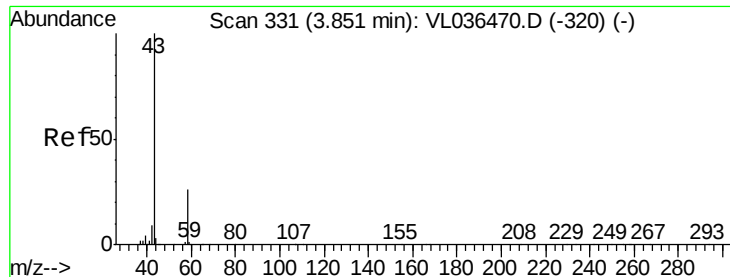
Tgt Ion: 45 Resp: 57728

Ion Ratio Lower Upper

45 100

46 82.9 16.6 66.2#





#15

Acetone

Concen: 4.700 ppbv

RT: 3.85 min Scan# 330

Delta R.T. -0.00 min

Lab File: VL036720.D

Acq: 7 Apr 2021 8:20

Instrument :

MSVOA_L

ClientSampleId :

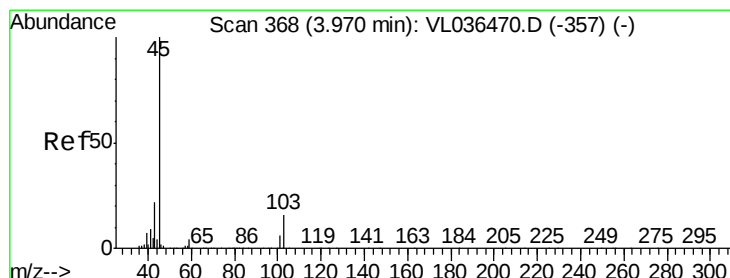
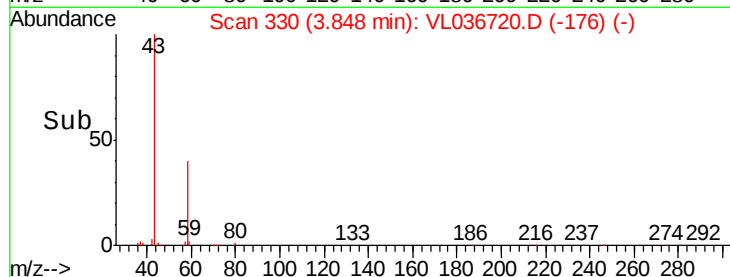
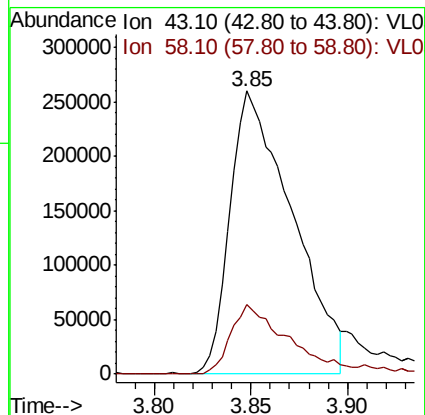
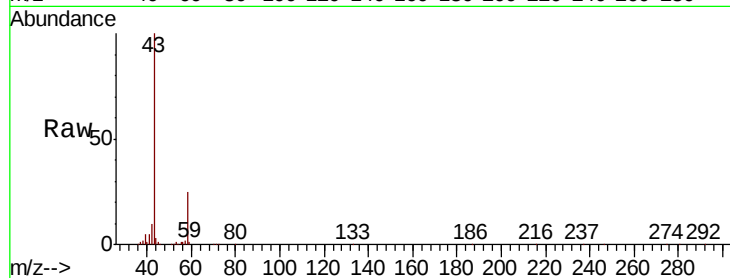
FS-SV1-FIELD

Tot Ion: 43 Resp: 578371

Ion Ratio Lower Upper

43 100

58 24.9 21.2 31.8



#19

Isopropyl Alcohol

Concen: 1.161 ppbv

RT: 3.99 min Scan# 373

Delta R.T. 0.02 min

Lab File: VL036720.D

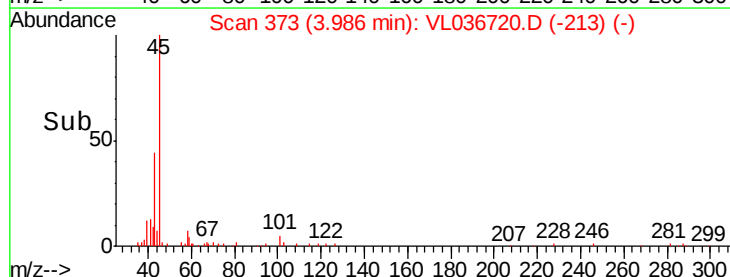
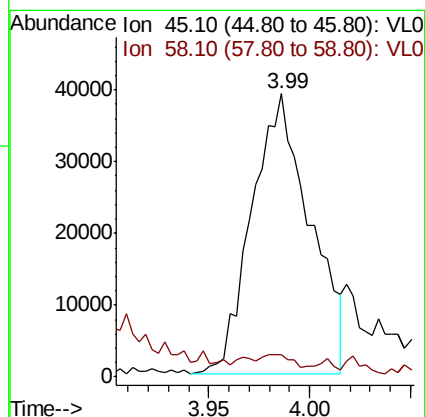
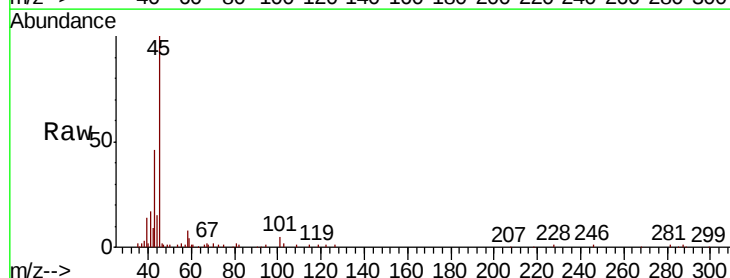
Acq: 7 Apr 2021 8:20

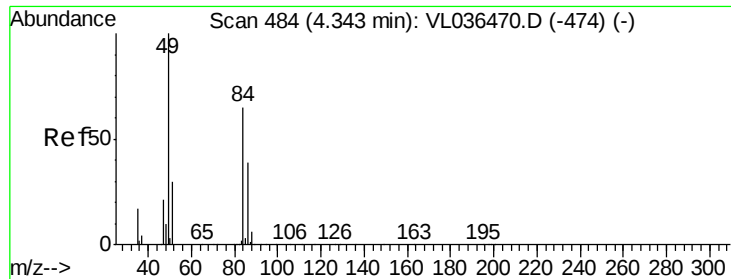
Tgt Ion: 45 Resp: 78590

Ion Ratio Lower Upper

45 100

58 0.0 2.9 4.3#

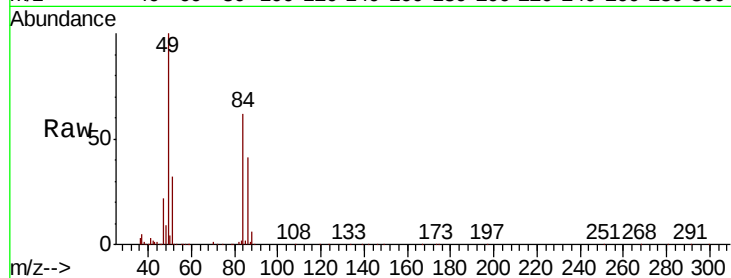




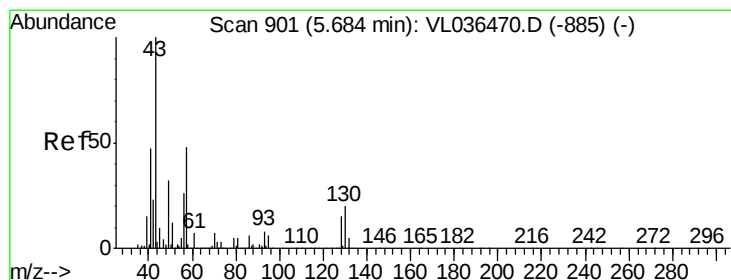
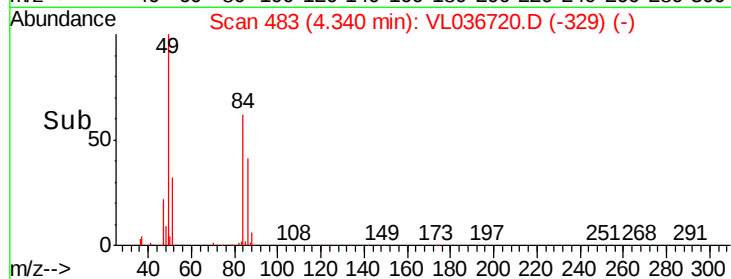
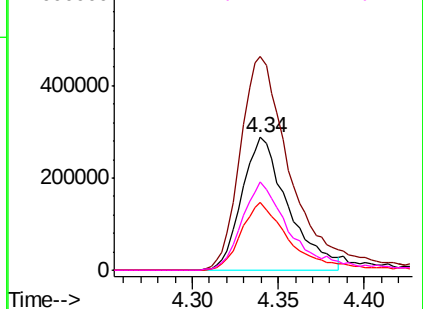
#20
Methvlene Chloride
Concen: 9.319 ppbv
RT: 4.34 min Scan# 483
Delta R.T. -0.00 min
Lab File: VL036720.D
Acq: 7 Apr 2021 8:20

Instrument :
MSVOA_L
ClientSampleId :
FS-SV1-FIELD

Tot Ion:	84	Resp:	536895
Ion	Ratio	Lower	Upper
84	100		
49	161.2	122.9	184.3
51	50.8	36.9	55.3
86	66.3	48.2	72.4

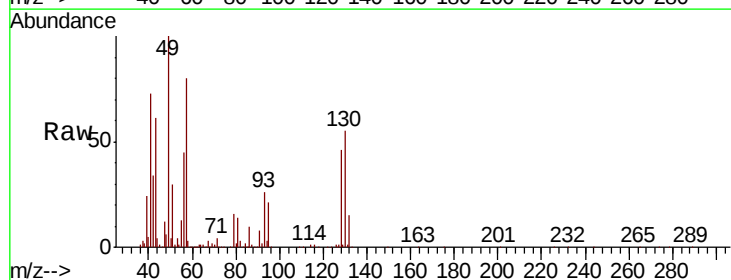


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

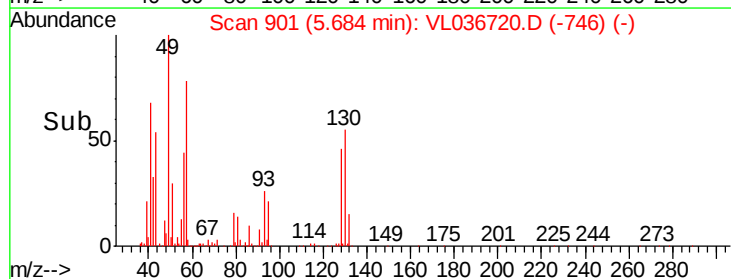
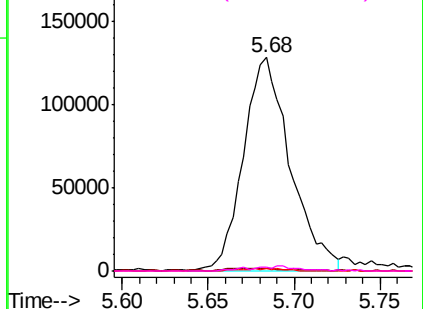


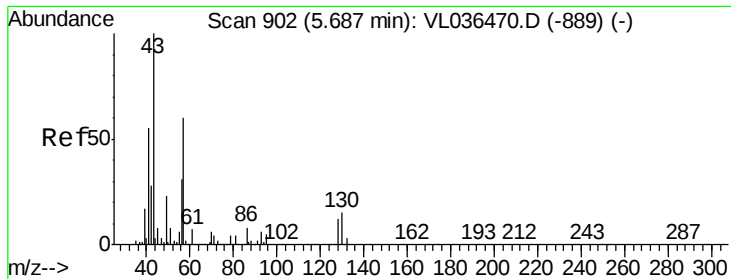
#25
Ethyl Acetate
Concen: 0.826 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL036720.D
Acq: 7 Apr 2021 8:20

Tgt Ion:	43	Resp:	241710
Ion	Ratio	Lower	Upper
43	100		
45	2.4	7.9	11.9#
61	1.0	7.4	11.2#
70	2.7	5.1	7.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

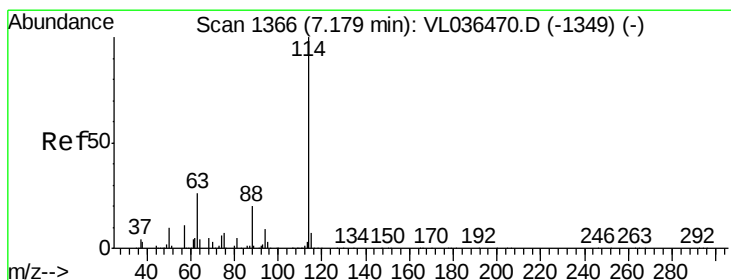
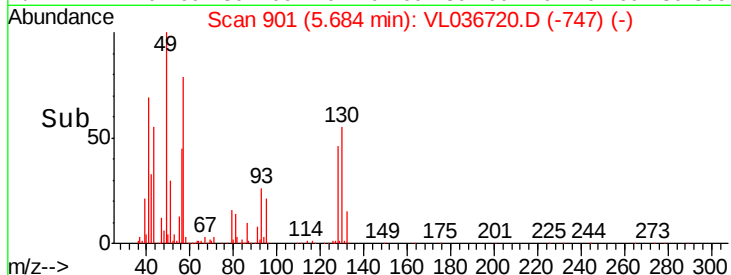
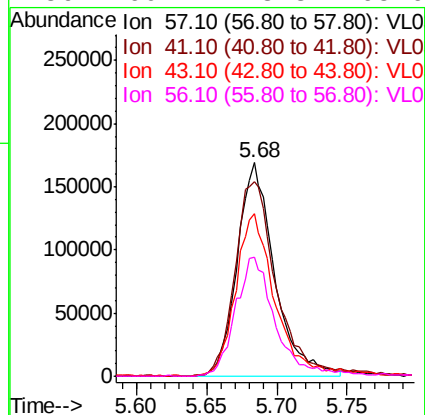
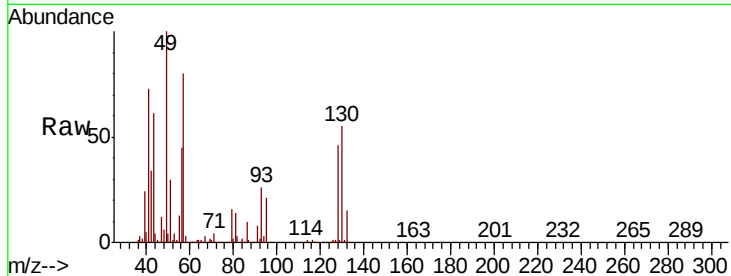




#26
Hexane
Concen: 2.316 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL036720.D
Acq: 7 Apr 2021 8:20

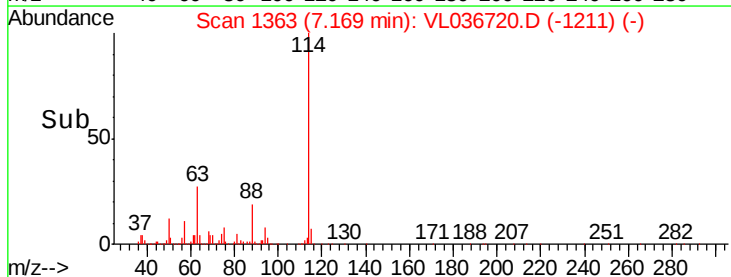
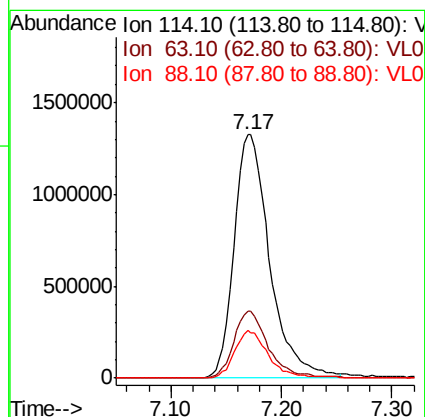
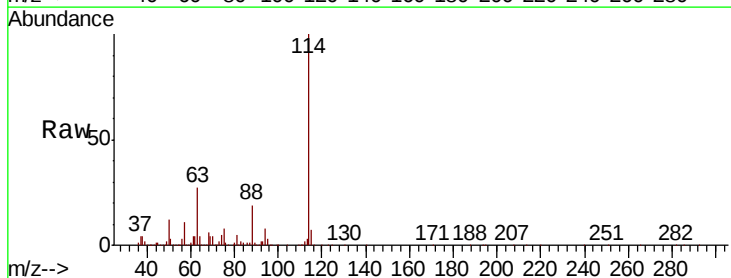
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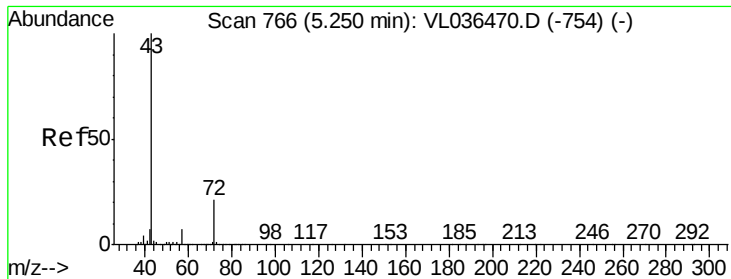
Tot Ion: 57 Resp: 314433
Ion Ratio Lower Upper
57 100
41 102.0 77.2 115.8
43 81.5 173.8 260.6#
56 60.1 43.8 65.6



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.01 min
Lab File: VL036720.D
Acq: 7 Apr 2021 8:20

Tgt Ion: 114 Resp: 2966196
Ion Ratio Lower Upper
114 100
63 27.1 22.4 33.6
88 19.0 15.4 23.0

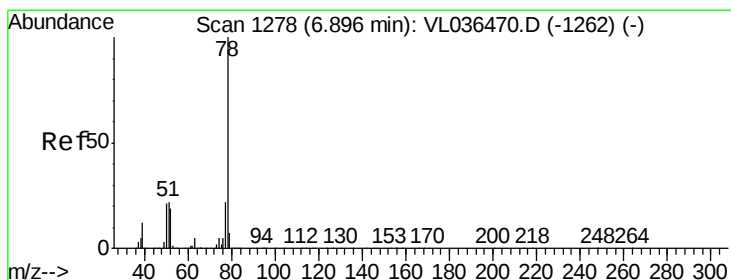
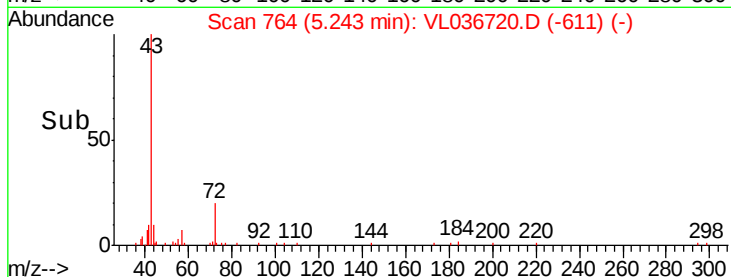
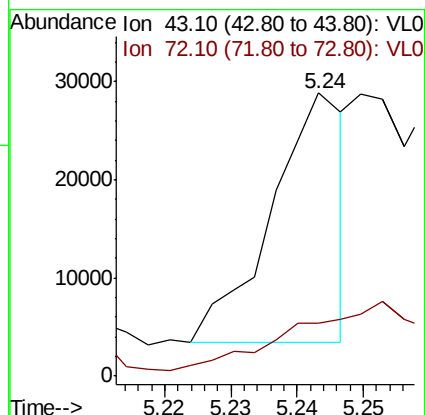
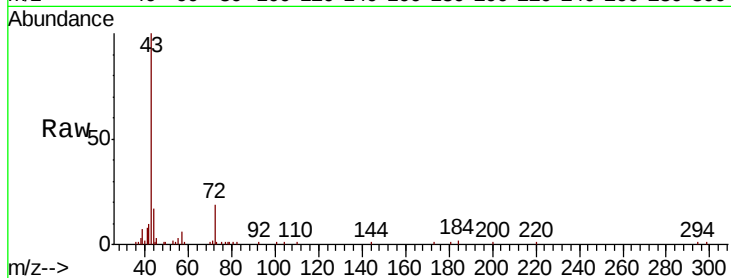




#34
2-Butanone
Concen: 0.134 ppbv
RT: 5.24 min Scan# 764
Delta R.T. -0.01 min
Lab File: VL036720.D
Acq: 7 Apr 2021 8:20

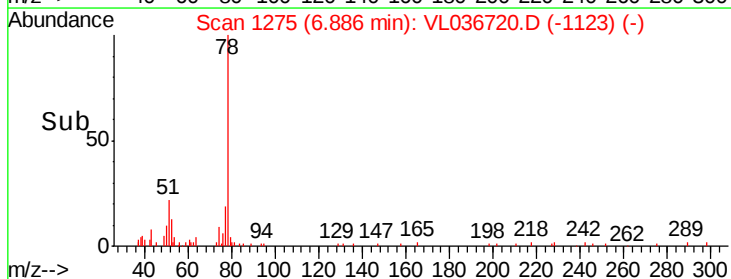
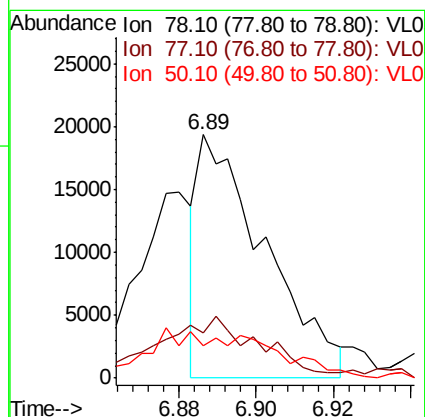
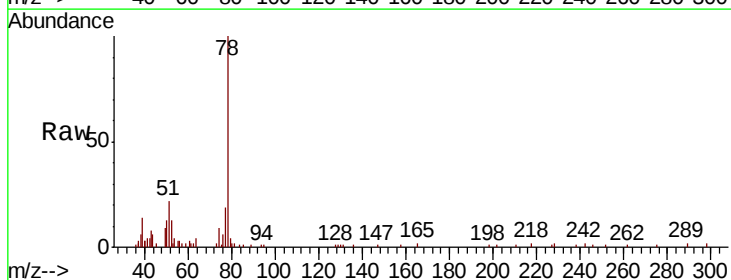
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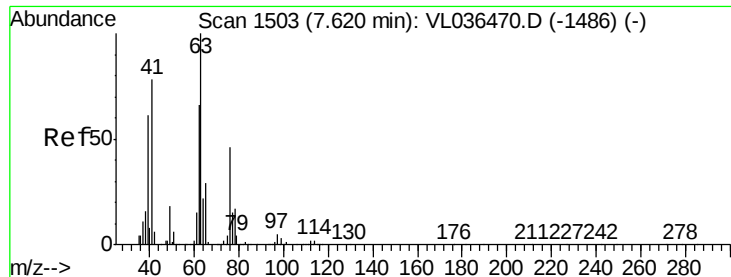
Tot Ion: 43 Resp: 19474
Ion Ratio Lower Upper
43 100
72 0.0 17.0 25.6#



#36
Benzene
Concen: 0.084 ppbv
RT: 6.89 min Scan# 1275
Delta R.T. -0.01 min
Lab File: VL036720.D
Acq: 7 Apr 2021 8:20

Tgt Ion: 78 Resp: 23078
Ion Ratio Lower Upper
78 100
77 18.9 18.0 27.0
50 11.7 16.5 24.7#

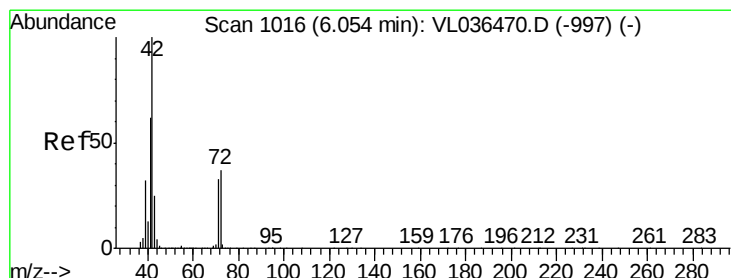
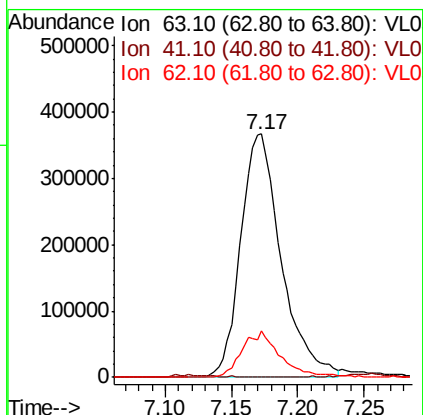
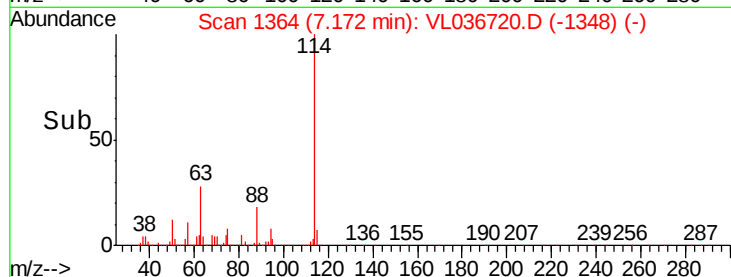
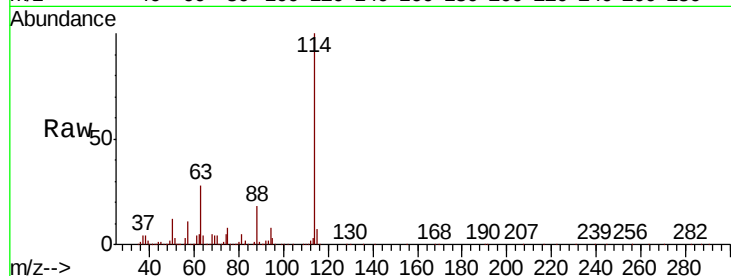




#39
 1,2-Dichloropropane
 Concen: 7.020 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.45 min
 Lab File: VL036720.D
 Acq: 7 Apr 2021 8:20

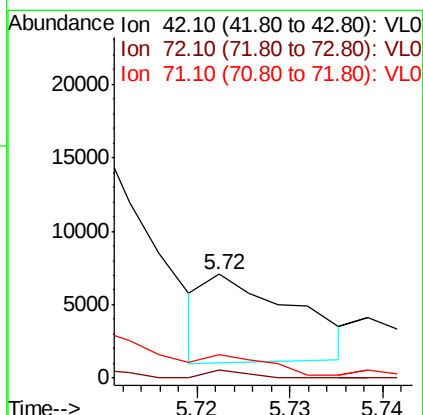
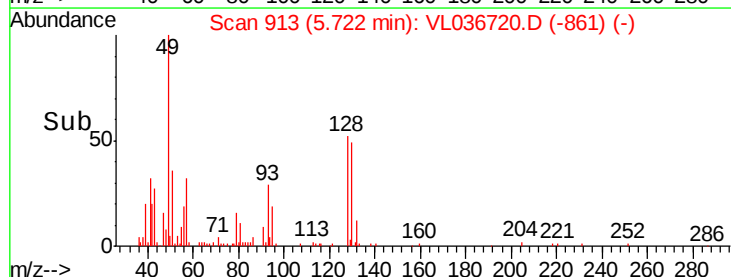
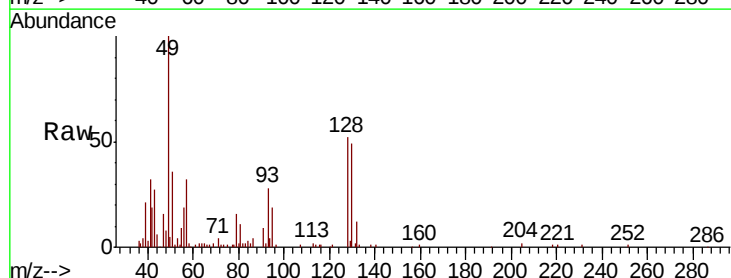
Instrument :
 MSVOA_L
 ClientSampleId :
 FS-SV1-FIELD

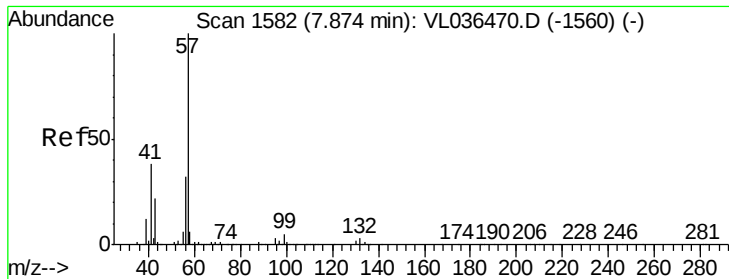
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	62.4	93.6#
62	19.0	52.8	79.2#



#41
 Tetrahydrofuran
 Concen: 0.060 ppbv
 RT: 5.72 min Scan# 913
 Delta R.T. -0.33 min
 Lab File: VL036720.D
 Acq: 7 Apr 2021 8:20

Tgt Ion	Ratio	Lower	Upper
42	100		
72	6.5	27.6	41.4#
71	0.0	27.0	40.4#

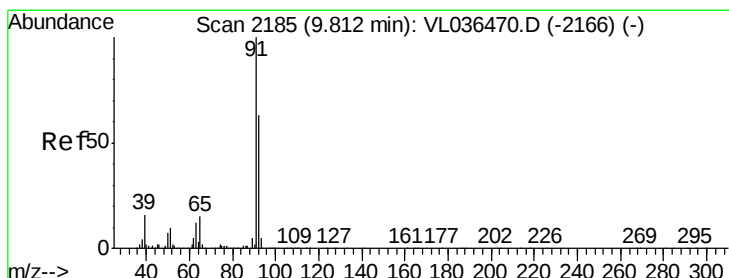
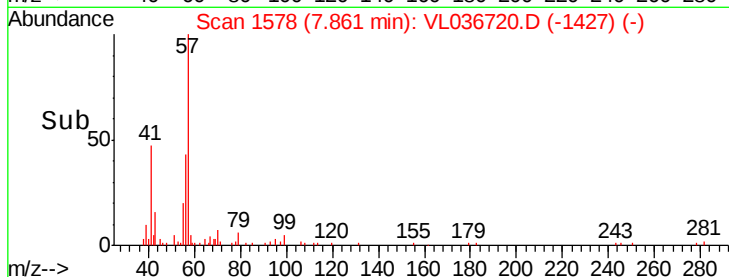
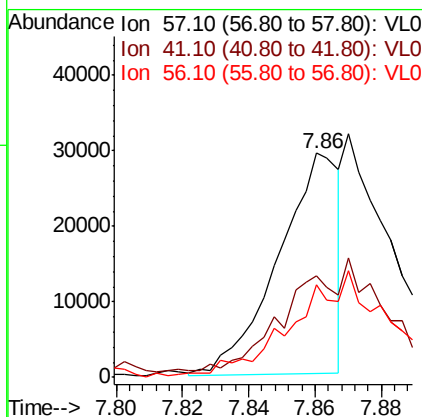
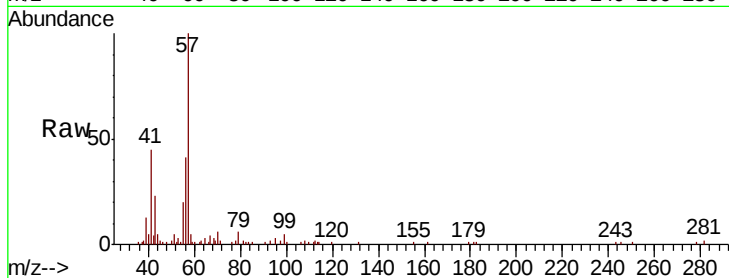




#44
 2,2,4-Trimethylpentane
 Concen: 0.077 ppbv
 RT: 7.86 min Scan# 1578
 Delta R.T. -0.01 min
 Lab File: VL036720.D
 Acq: 7 Apr 2021 8:20

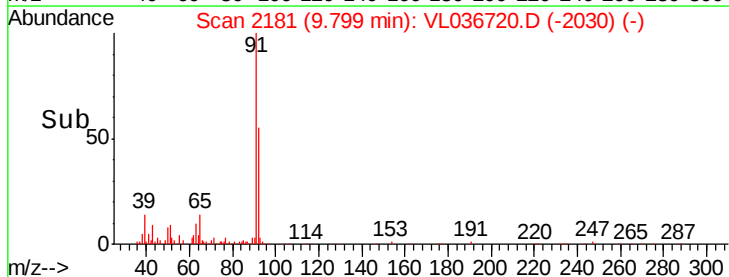
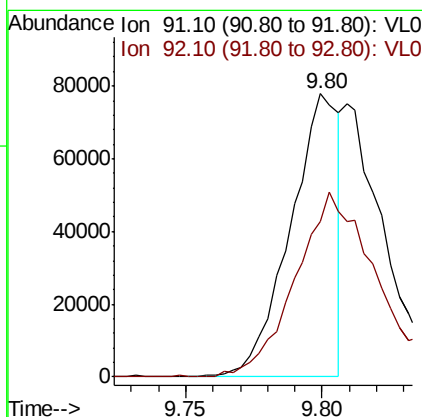
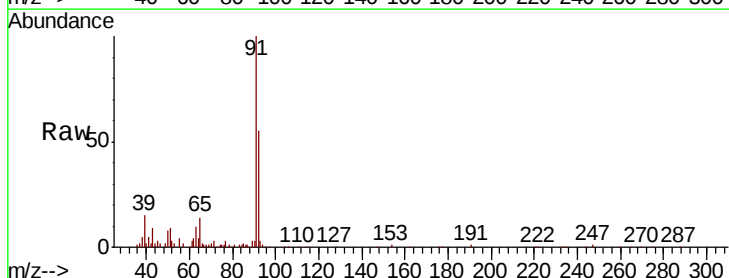
Instrument :
 MSVOA_L
 ClientSampleId :
 FS-SV1-FIELD

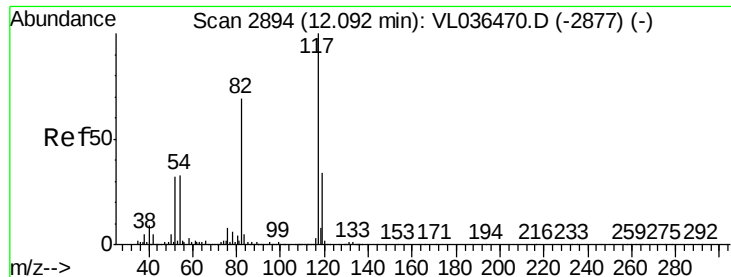
Tot Ion: 57 Resp: 37179
 Ion Ratio Lower Upper
 57 100
 41 0.0 28.8 43.2#
 56 0.0 26.1 39.1#



#53
 Toluene
 Concen: 0.327 ppbv
 RT: 9.80 min Scan# 2181
 Delta R.T. -0.01 min
 Lab File: VL036720.D
 Acq: 7 Apr 2021 8:20

Tgt Ion: 91 Resp: 95390
 Ion Ratio Lower Upper
 91 100
 92 112.9 48.8 73.2#

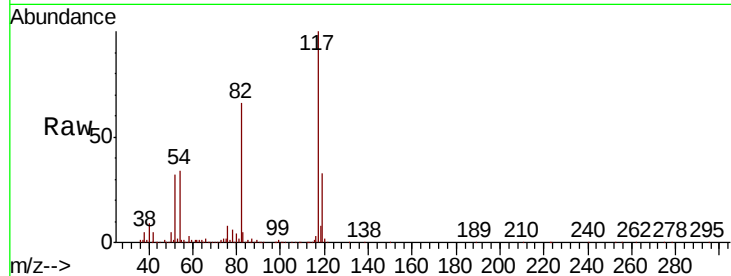




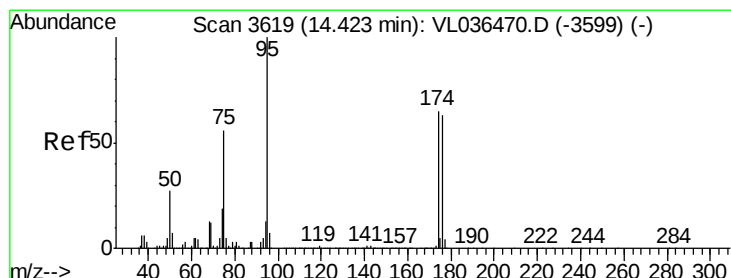
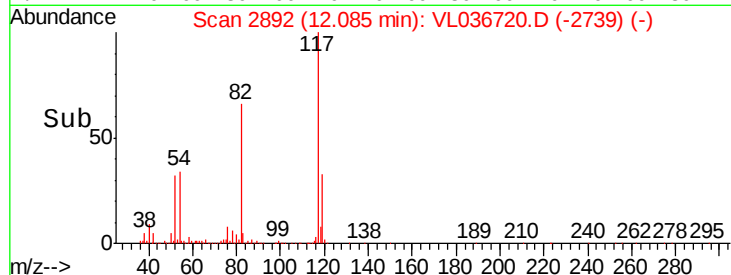
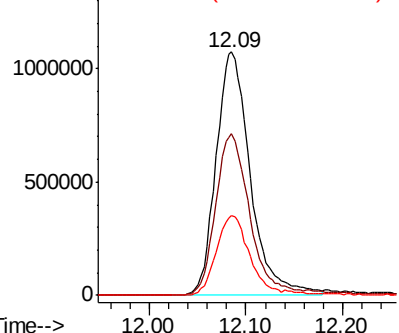
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL036720.D
Acq: 7 Apr 2021 8:20

Instrument :
MSVOA_L
ClientSampleId :
FS-SV1-FIELD

Tot Ion:117 Resp: 2651439
Ion Ratio Lower Upper
117 100
82 68.6 57.4 86.0
119 33.2 47.4 71.0#

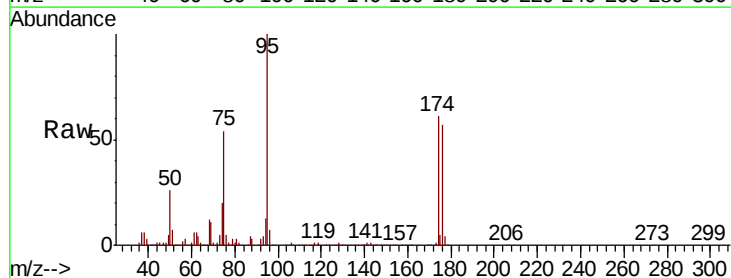


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 9.690 ppbv
RT: 14.41 min Scan# 3616
Delta R.T. -0.01 min
Lab File: VL036720.D
Acq: 7 Apr 2021 8:20

Tgt Ion: 95 Resp: 2047656
Ion Ratio Lower Upper
95 100
174 67.1 51.0 76.6
175 5.1 3.9 5.9



Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V

