

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120122\
 Data File : VL039951.D
 Acq On : 1 Dec 2022 20:59
 Operator : SY/MD
 Sample : N5826-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 H302022-EFFLUENT

Quant Time: Dec 02 05:35:28 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111822AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Dec 02 05:29:35 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.159	49	1094652	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	6.622	114	3077638	10.000	ppbv	-0.01
55) Chlorobenzene-d5	11.436	117	2736264	10.000	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.751	95	2099570	10.046	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.500%

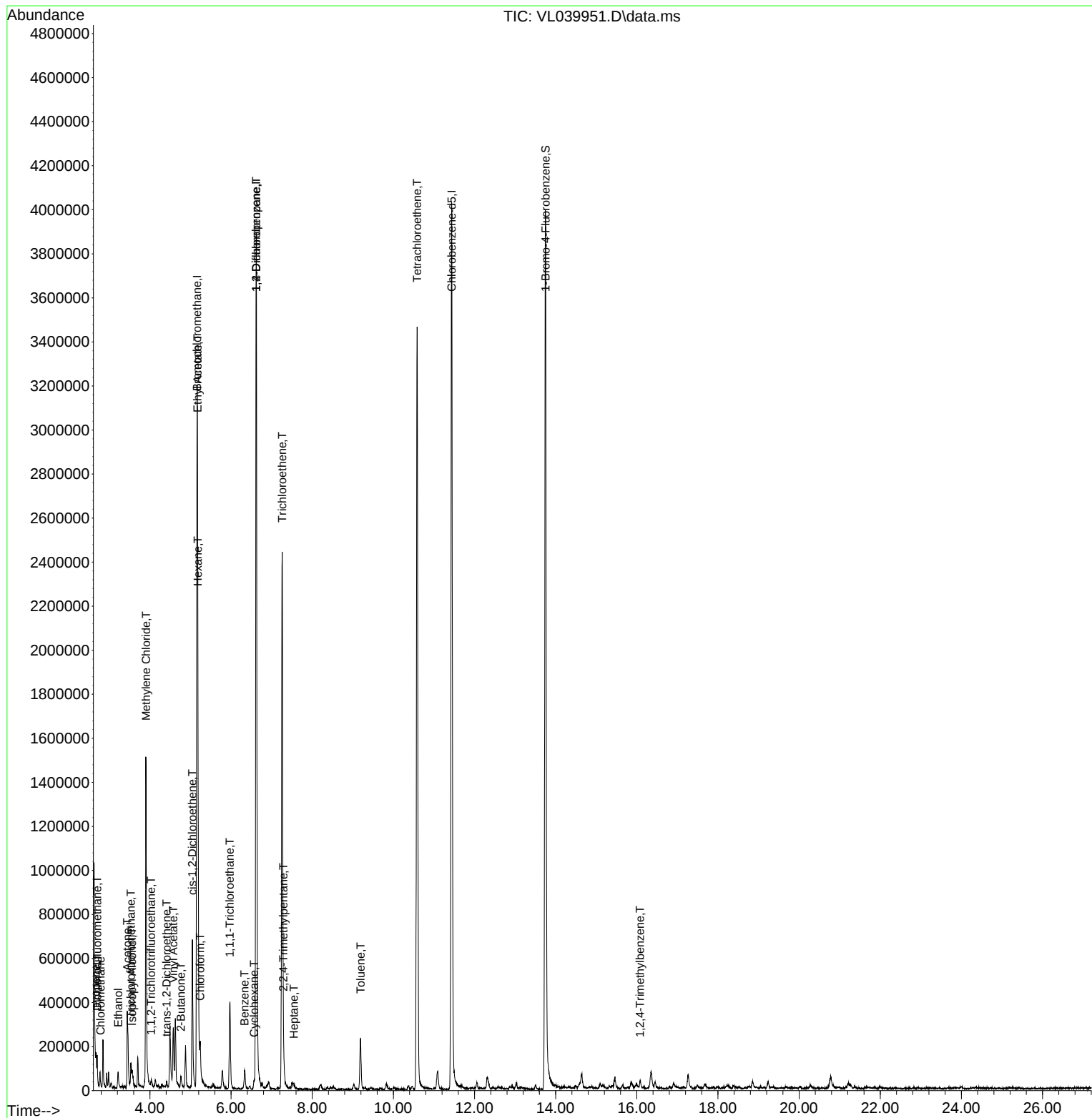
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.700	85	75809	0.484	ppbv	94
4) Chloromethane	2.780	50	10649	0.110	ppbv #	85
9) Propene	2.671	41	33249	0.467	ppbv	85
10) Heptane	7.545	43	5982	0.035	ppbv #	27
11) Trichlorofluoromethane	3.529	101	64775	0.339	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.031	101	7470	0.052	ppbv #	64
13) Ethanol	3.217	45	73948	13.612	ppbv	98
15) Acetone	3.439	43	361479	2.490	ppbv	97
19) Isopropyl Alcohol	3.558	45	77873	0.991	ppbv #	29
20) Methylene Chloride	3.902	84	466196	6.627	ppbv	97
22) trans-1,2-Dichloroethene	4.414	96	3696	0.055	ppbv #	89
23) Vinyl Acetate	4.574	43	138602	2.324	ppbv #	1
25) Ethyl Acetate	5.172	43	1394863	5.232	ppbv #	96
26) Hexane	5.182	57	396263	3.403	ppbv #	52
29) Chloroform	5.237	83	71886	0.465	ppbv	91
30) Cyclohexane	6.565	84	8900	0.078	ppbv #	30
31) cis-1,2-Dichloroethene	5.047	61	373513	3.472	ppbv	97
32) 1,1,1-Trichloroethane	5.970	97	241713	1.251	ppbv	98
34) 2-Butanone	4.764	43	57904	0.393	ppbv #	84
36) Benzene	6.333	78	68085	0.260	ppbv #	94
38) Trichloroethene	7.262	130	778057	5.321	ppbv	97
39) 1,2-Dichloropropane	6.619	63	749431	7.353	ppbv #	26
44) 2,2,4-Trimethylpentane	7.294	57	65659	0.150	ppbv #	84
52) Tetrachloroethene	10.584	164	884464	9.038	ppbv	96
53) Toluene	9.191	91	172031	0.577	ppbv	98
74) 1,2,4-Trimethylbenzene	16.079	105	13707	0.042	ppbv #	57

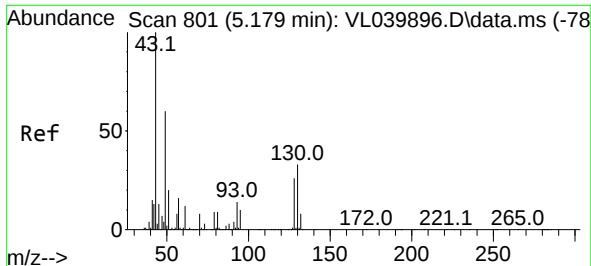
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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H302022-EFFLUENT

Quant Time: Dec 02 05:35:28 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11822AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Dec 02 05:29:35 2022
Response via : Initial Calibration

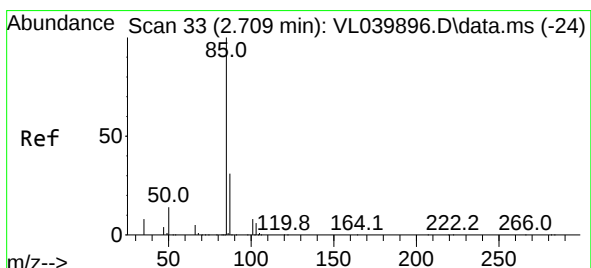
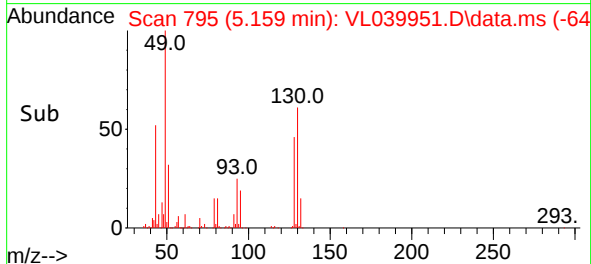
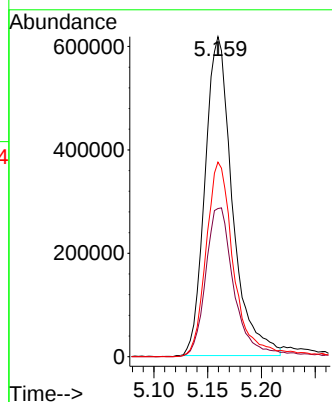
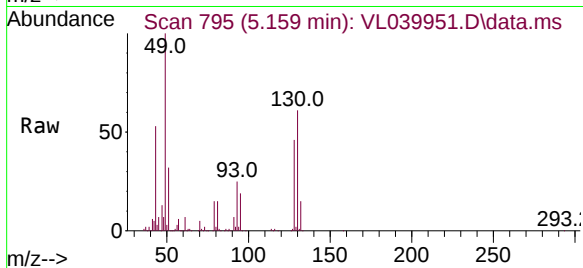




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.159 min Scan# 79
 Delta R.T. -0.014 min
 Lab File: VL039951.D
 Acq: 1 Dec 2022 20:59

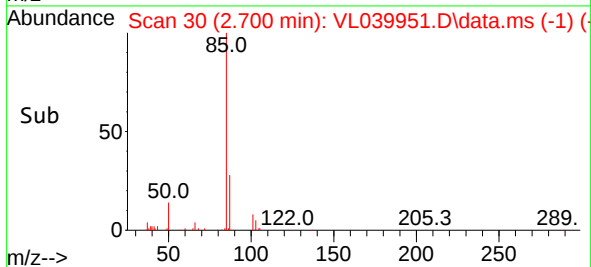
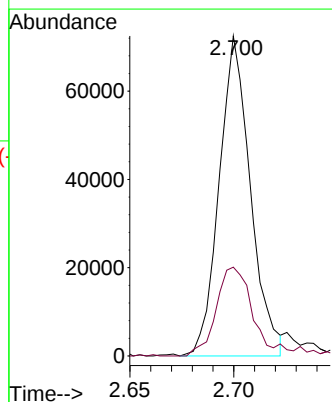
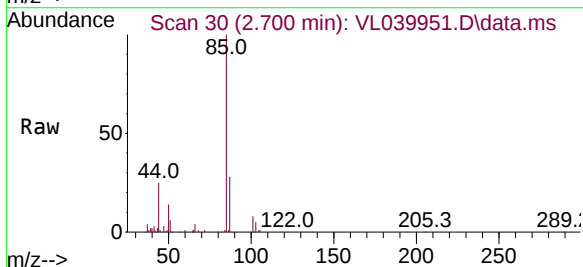
Instrument :
 MSVOA_L
 ClientSampleId :
 H302022-EFFLUENT

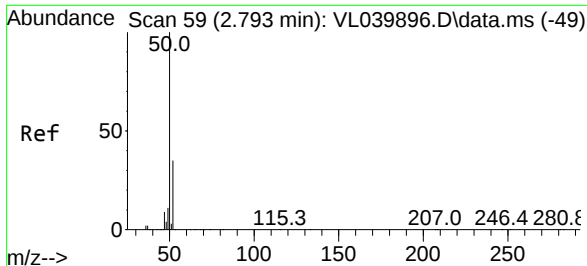
Tgt Ion: 49 Resp: 1094652
 Ion Ratio Lower Upper
 49 100
 128 49.5 22.1 66.3
 130 63.2 27.7 83.1



#2
 Dichlorodifluoromethane
 Concen: 0.484 ppbv
 RT: 2.700 min Scan# 30
 Delta R.T. -0.010 min
 Lab File: VL039951.D
 Acq: 1 Dec 2022 20:59

Tgt Ion: 85 Resp: 75809
 Ion Ratio Lower Upper
 85 100
 87 27.8 25.0 37.4

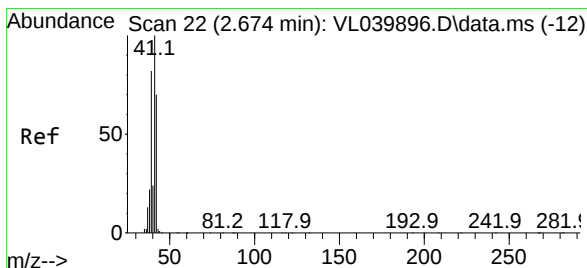
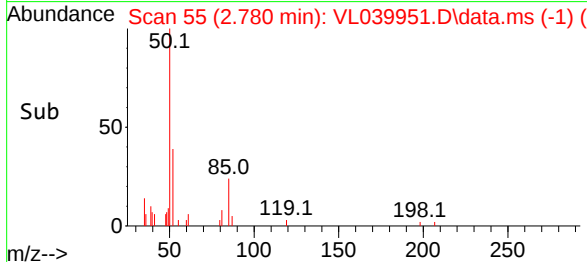
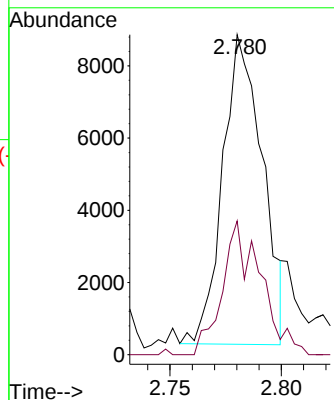
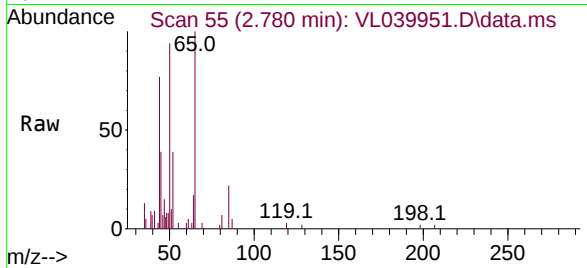




#4
Chloromethane
Concen: 0.110 ppbv
RT: 2.780 min Scan# 51
Delta R.T. -0.010 min
Lab File: VL039951.D
Acq: 1 Dec 2022 20:59

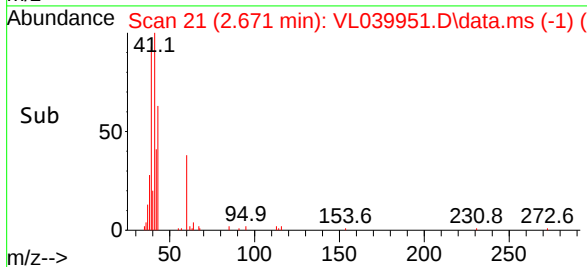
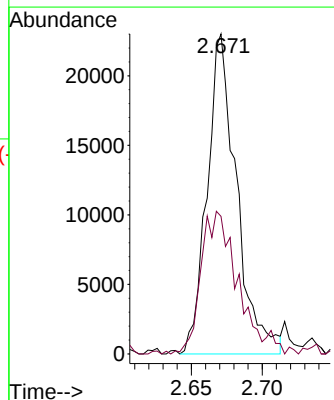
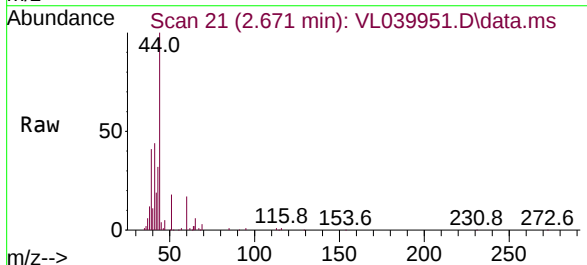
Instrument :
MSVOA_L
ClientSampleId :
H302022-EFFLUENT

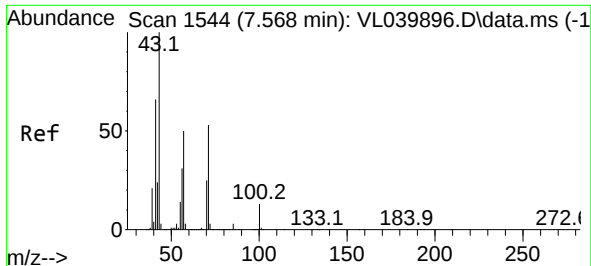
Tgt Ion: 50 Resp: 10649
Ion Ratio Lower Upper
50 100
52 43.3 27.8 41.8#



#9
Propene
Concen: 0.467 ppbv
RT: 2.671 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL039951.D
Acq: 1 Dec 2022 20:59

Tgt Ion: 41 Resp: 33249
Ion Ratio Lower Upper
41 100
42 57.6 55.8 83.6

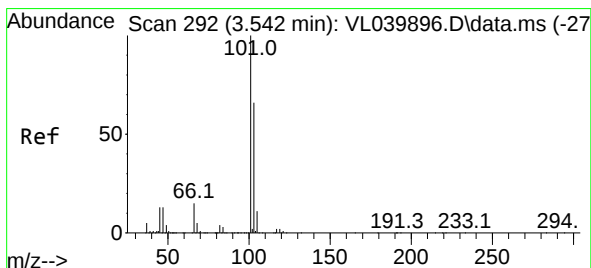
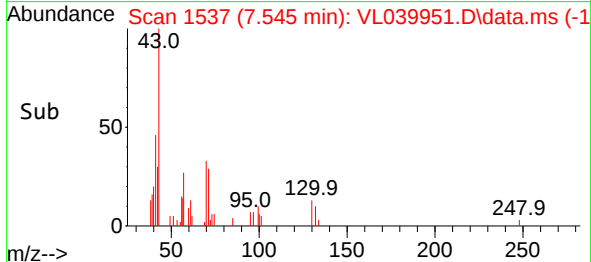
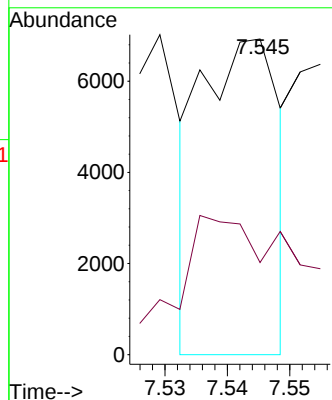
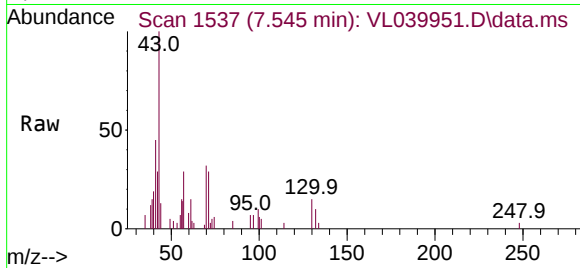




#10
Heptane
Concen: 0.035 ppbv
RT: 7.545 min Scan# 11
Delta R.T. -0.019 min
Lab File: VL039951.D
Acq: 1 Dec 2022 20:59

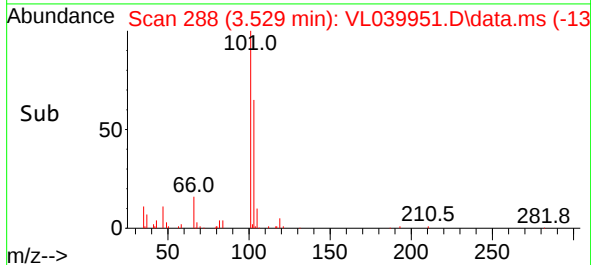
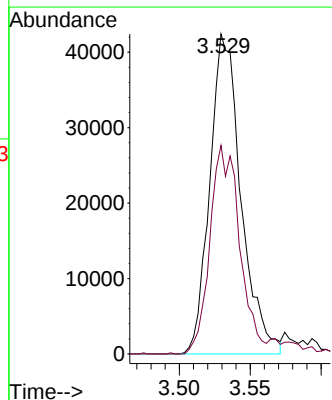
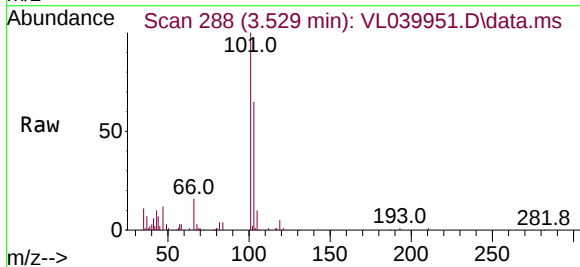
Instrument :
MSVOA_L
ClientSampleId :
H302022-EFFLUENT

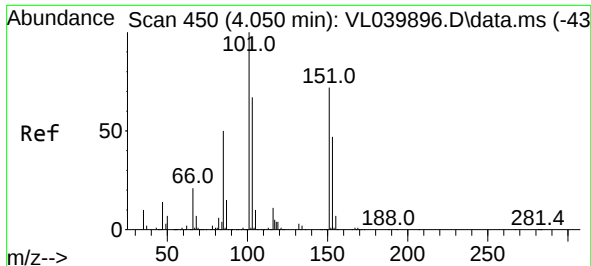
Tgt Ion: 43 Resp: 5982
Ion Ratio Lower Upper
43 100
57 0.0 40.7 61.1#



#11
Trichlorofluoromethane
Concen: 0.339 ppbv
RT: 3.529 min Scan# 288
Delta R.T. -0.013 min
Lab File: VL039951.D
Acq: 1 Dec 2022 20:59

Tgt Ion: 101 Resp: 64775
Ion Ratio Lower Upper
101 100
103 65.2 52.6 78.8





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.052 ppbv

RT: 4.031 min Scan# 444

Delta R.T. -0.016 min

Lab File: VL039951.D

Acq: 1 Dec 2022 20:59

Instrument :

MSVOA_L

ClientSampleId :

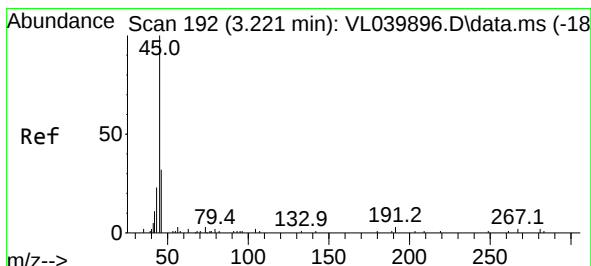
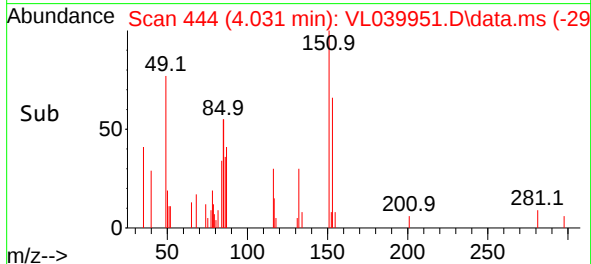
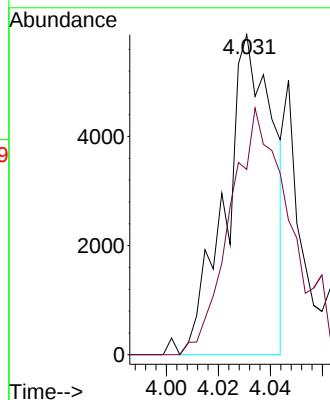
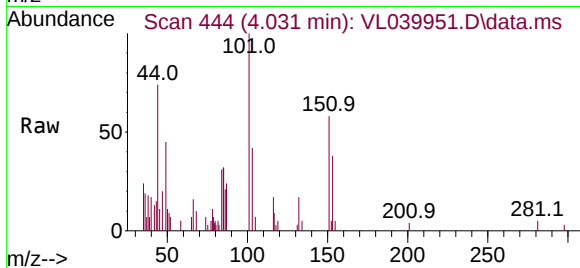
H302022-EFFLUENT

Tgt Ion:101 Resp: 7470

Ion Ratio Lower Upper

101 100

151 104.6 59.6 89.4#



#13

Ethanol

Concen: 13.612 ppbv

RT: 3.217 min Scan# 191

Delta R.T. -0.010 min

Lab File: VL039951.D

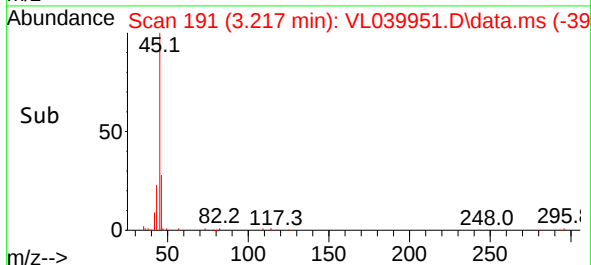
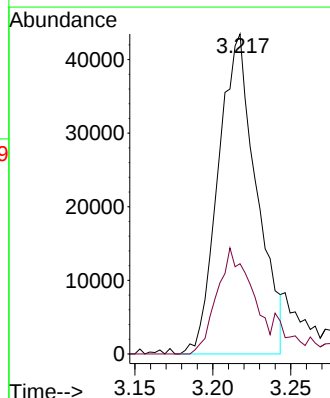
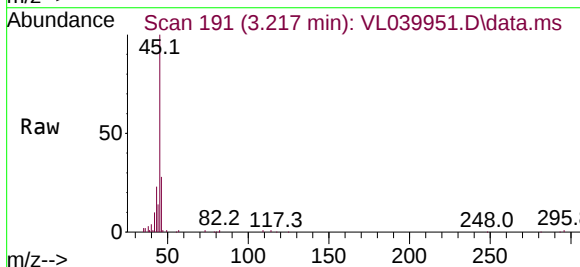
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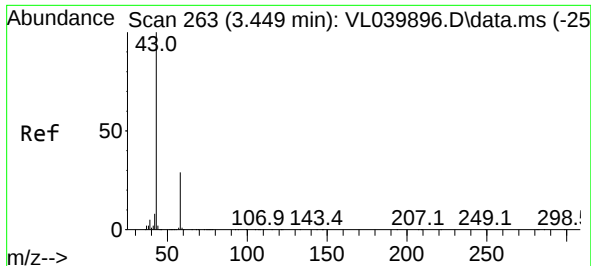
Tgt Ion: 45 Resp: 73948

Ion Ratio Lower Upper

45 100

46 37.8 14.6 58.2

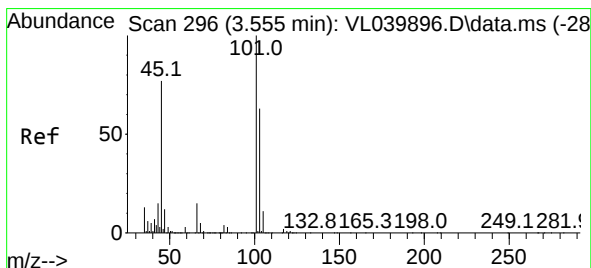
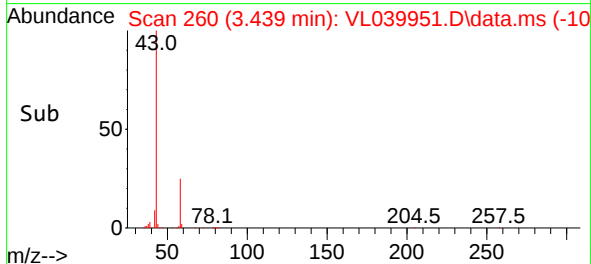
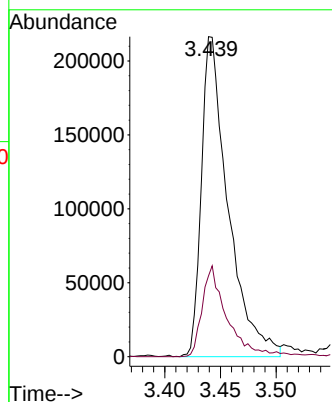
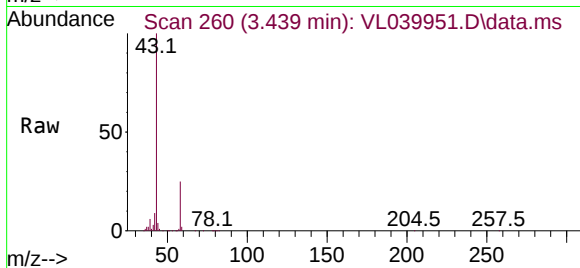




#15
Acetone
Concen: 2.490 ppbv
RT: 3.439 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL039951.D
Acq: 1 Dec 2022 20:59

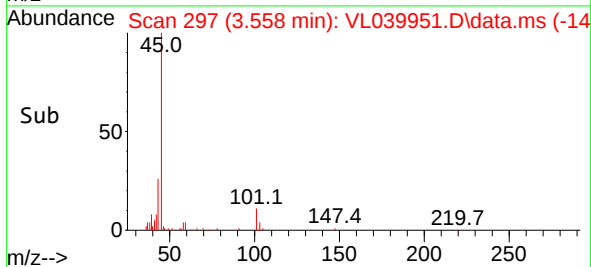
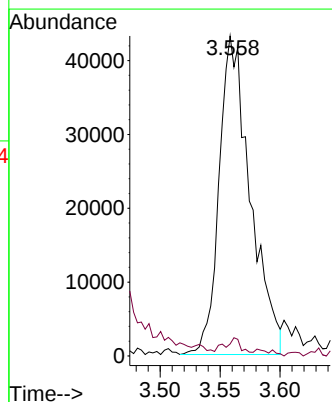
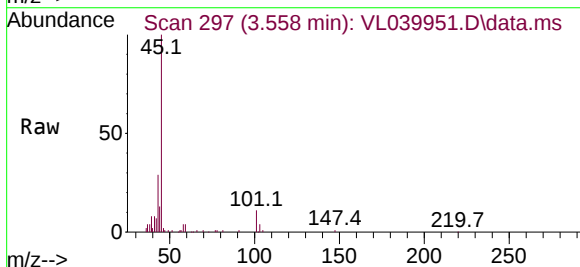
Instrument :
MSVOA_L
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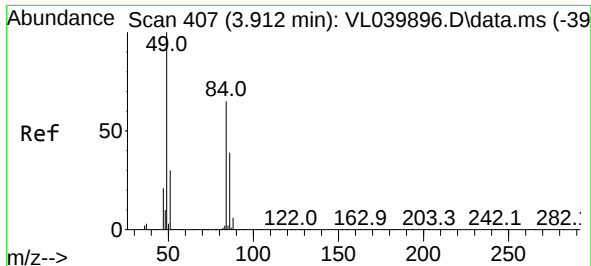
Tgt Ion: 43 Resp: 361479
Ion Ratio Lower Upper
43 100
58 27.0 22.9 34.3



#19
Isopropyl Alcohol
Concen: 0.991 ppbv
RT: 3.558 min Scan# 297
Delta R.T. 0.003 min
Lab File: VL039951.D
Acq: 1 Dec 2022 20:59

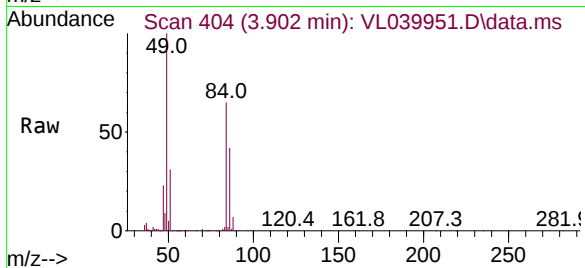
Tgt Ion: 45 Resp: 77873
Ion Ratio Lower Upper
45 100
58 0.0 38.7 58.1#





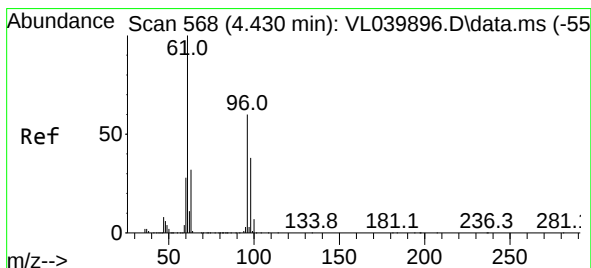
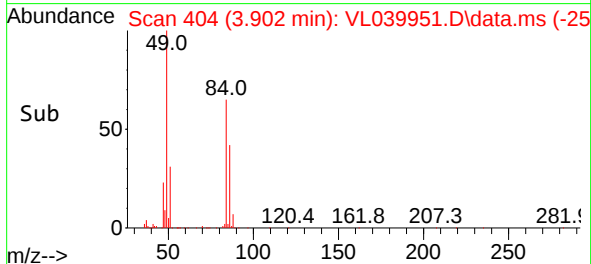
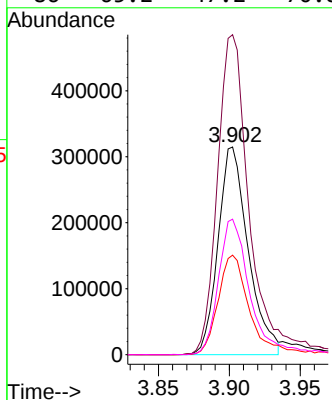
#20
Methylene Chloride
Concen: 6.627 ppbv
RT: 3.902 min Scan# 407
Delta R.T. -0.010 min
Lab File: VL039951.D
Acq: 1 Dec 2022 20:59

Instrument :
MSVOA_L
ClientSampleId :
H302022-EFFLUENT



Tgt Ion: 84 Resp: 466196

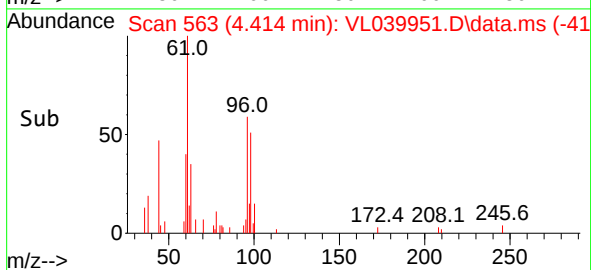
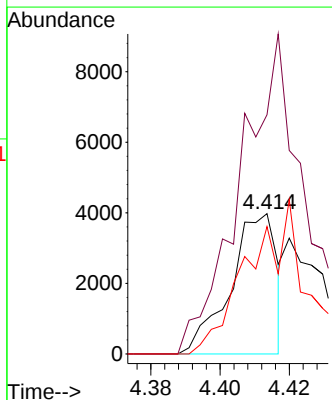
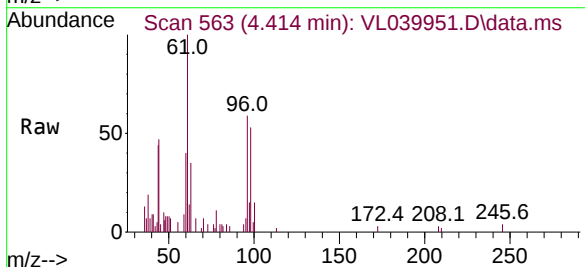
Ion	Ratio	Lower	Upper
84	100		
49	154.0	122.2	183.4
51	47.9	36.3	54.5
86	65.2	47.2	70.8

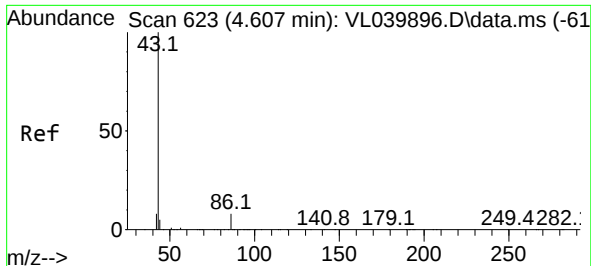


#22
trans-1,2-Dichloroethene
Concen: 0.055 ppbv
RT: 4.414 min Scan# 563
Delta R.T. -0.013 min
Lab File: VL039951.D
Acq: 1 Dec 2022 20:59

Tgt Ion: 96 Resp: 3696

Ion	Ratio	Lower	Upper
96	100		
61	170.4	134.1	201.1
98	90.7	50.4	75.6



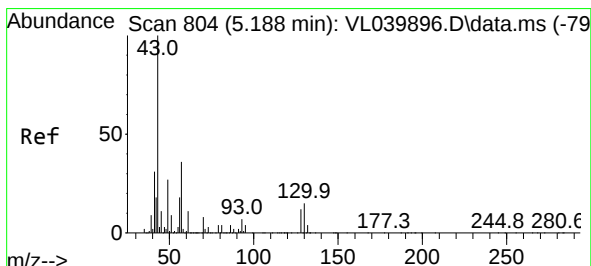
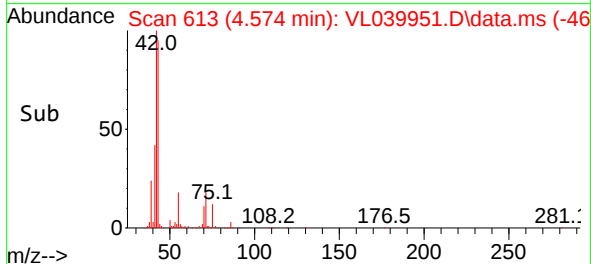
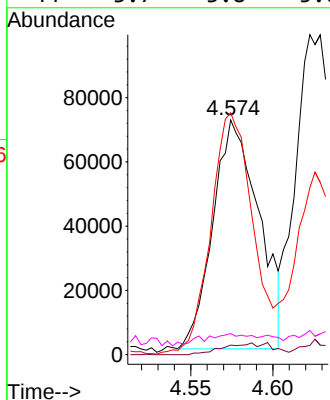
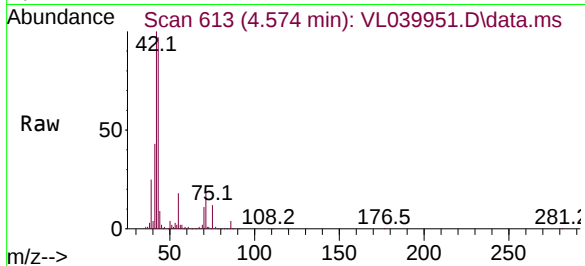


#23
 Vinyl Acetate
 Concen: 2.324 ppbv
 RT: 4.574 min Scan# 61
 Delta R.T. -0.032 min
 Lab File: VL039951.D
 Acq: 1 Dec 2022 20:59

Instrument :
 MSVOA_1
 ClientSampleId :
 H302022-EFFLUENT

Tgt Ion: 43 Resp: 138602

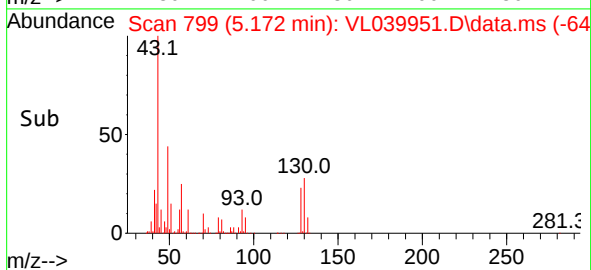
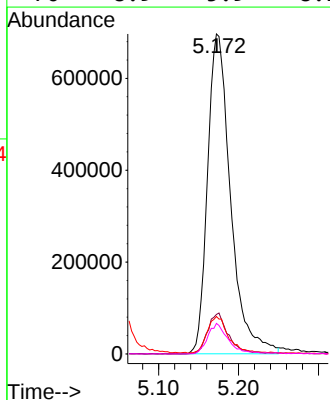
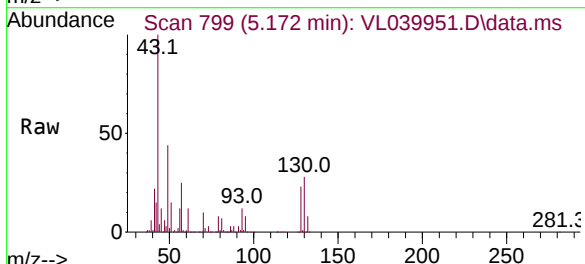
Ion	Ratio	Lower	Upper
43	100		
86	4.2	5.0	7.4#
42	103.8	7.6	11.4#
44	3.7	3.8	5.6#

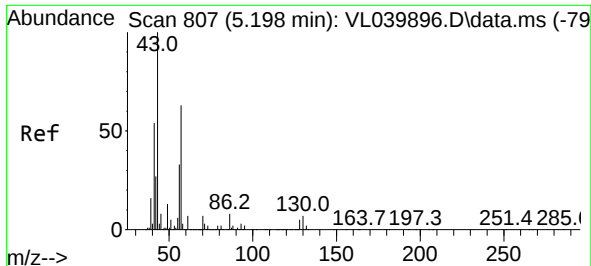


#25
 Ethyl Acetate
 Concen: 5.232 ppbv
 RT: 5.172 min Scan# 799
 Delta R.T. -0.013 min
 Lab File: VL039951.D
 Acq: 1 Dec 2022 20:59

Tgt Ion: 43 Resp: 1394863

Ion	Ratio	Lower	Upper
43	100		
45	12.1	8.4	12.6
61	11.7	8.5	12.7
70	8.9	5.9	8.9#

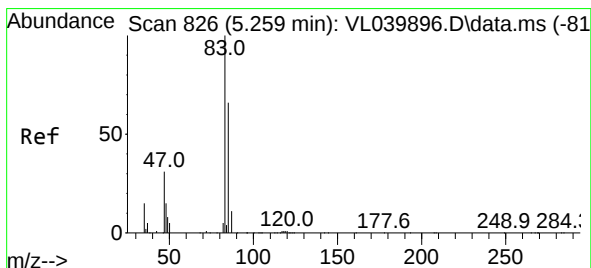
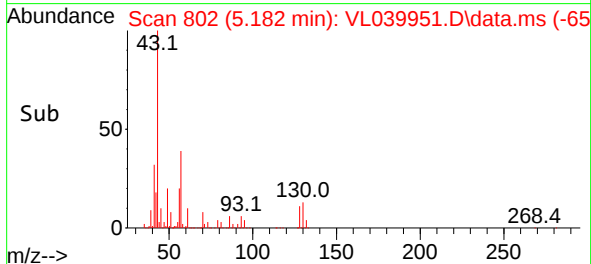
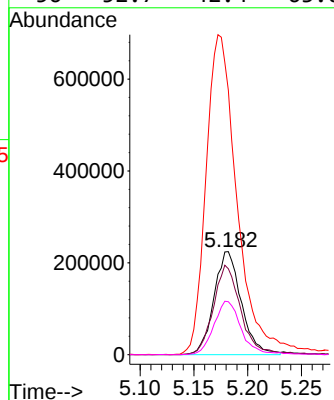
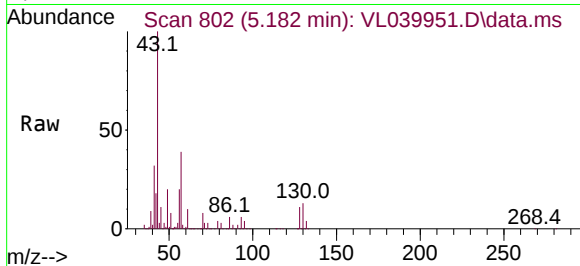




#26
Hexane
Concen: 3.403 ppbv
RT: 5.182 min Scan# 807
Delta R.T. -0.013 min
Lab File: VL039951.D
Acq: 1 Dec 2022 20:59

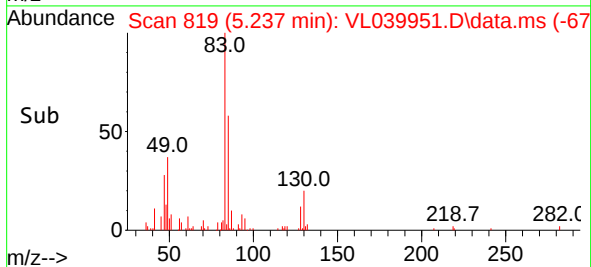
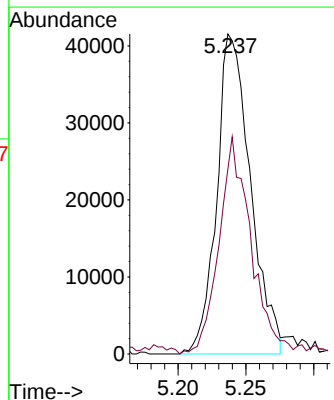
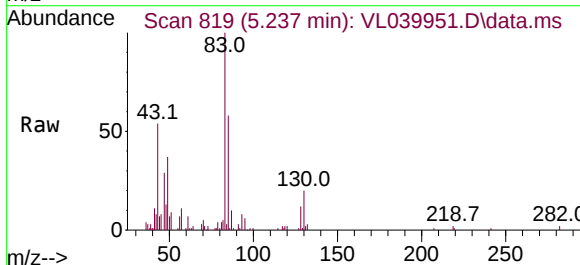
Instrument :
MSVOA_L
ClientSampleId :
H302022-EFFLUENT

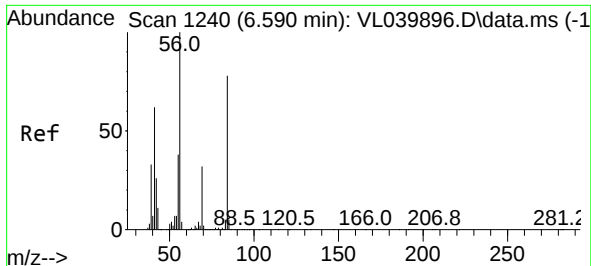
Tgt Ion: 57 Resp: 396263
Ion Ratio Lower Upper
57 100
41 87.9 72.3 108.5
43 364.0 188.7 283.1#
56 52.7 42.4 63.6



#29
Chloroform
Concen: 0.465 ppbv
RT: 5.237 min Scan# 819
Delta R.T. -0.019 min
Lab File: VL039951.D
Acq: 1 Dec 2022 20:59

Tgt Ion: 83 Resp: 71886
Ion Ratio Lower Upper
83 100
85 58.2 52.4 78.6

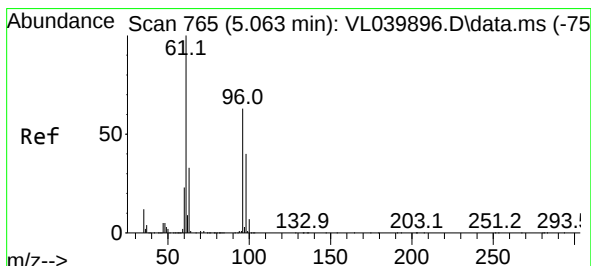
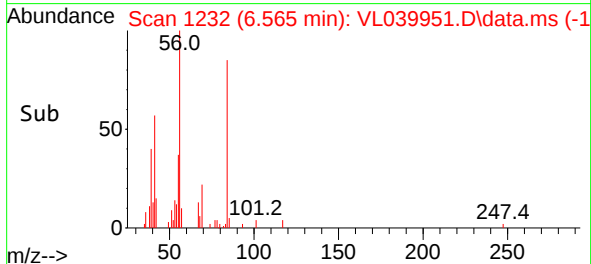
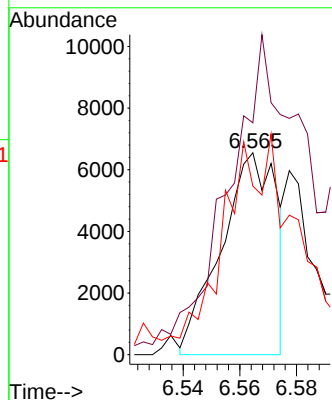
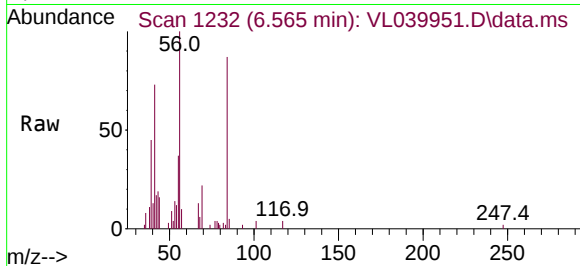




#30
Cyclohexane
Concen: 0.078 ppbv
RT: 6.565 min Scan# 11
Delta R.T. -0.019 min
Lab File: VL039951.D
Acq: 1 Dec 2022 20:59

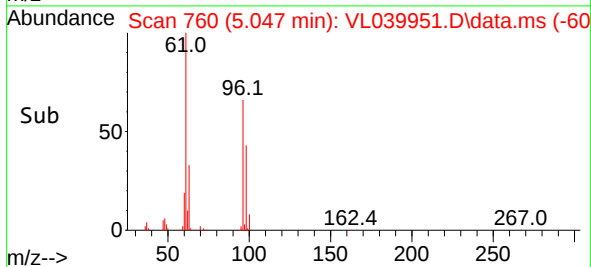
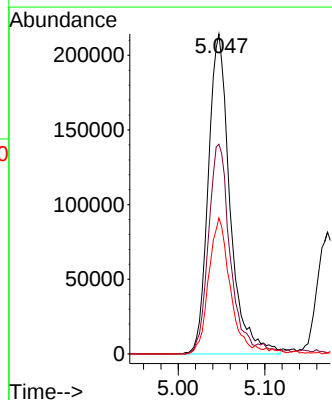
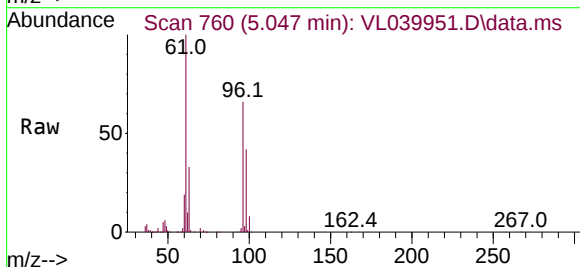
Instrument :
MSVOA_L
ClientSampleId :
H302022-EFFLUENT

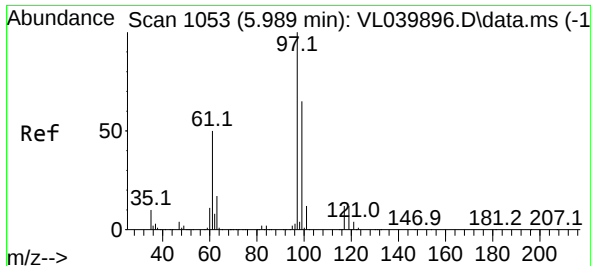
Tgt Ion: 84 Resp: 8900
Ion Ratio Lower Upper
84 100
56 215.1 112.5 168.7#
41 161.0 67.8 101.8#



#31
cis-1,2-Dichloroethene
Concen: 3.472 ppbv
RT: 5.047 min Scan# 760
Delta R.T. -0.010 min
Lab File: VL039951.D
Acq: 1 Dec 2022 20:59

Tgt Ion: 61 Resp: 373513
Ion Ratio Lower Upper
61 100
96 65.4 50.3 75.5
98 42.5 32.2 48.2



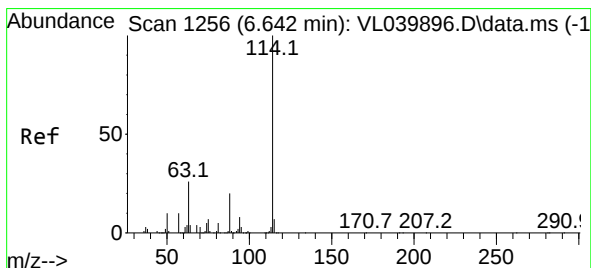
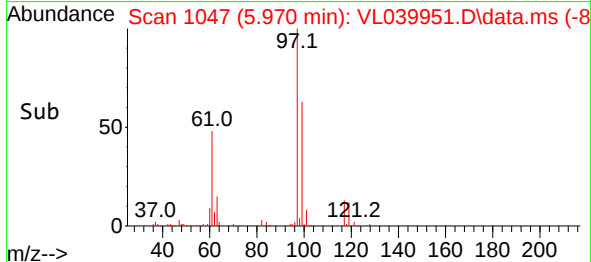
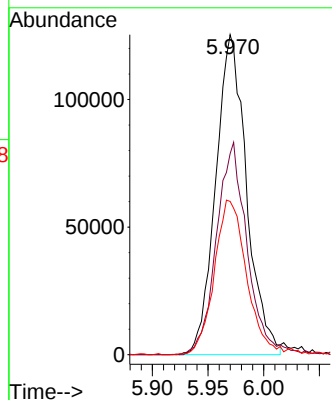
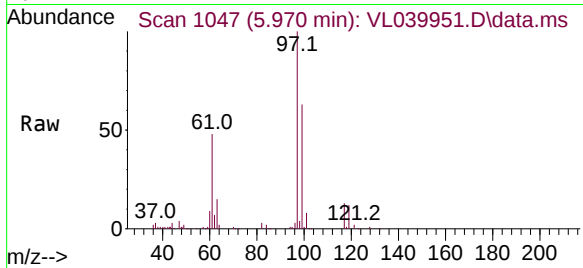


#32
 1,1,1-Trichloroethane
 Concen: 1.251 ppbv
 RT: 5.970 min Scan# 1053
 Delta R.T. -0.013 min
 Lab File: VL039951.D
 Acq: 1 Dec 2022 20:59

Instrument :
 MSVOA_L
 ClientSampleId :
 H302022-EFFLUENT

Tgt Ion: 97 Resp: 241713

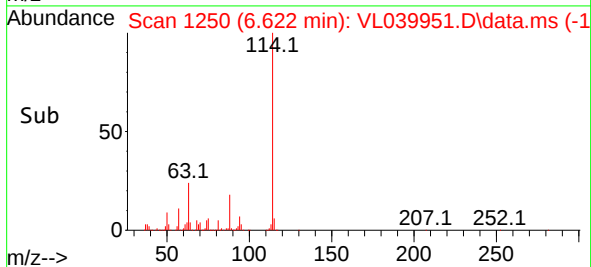
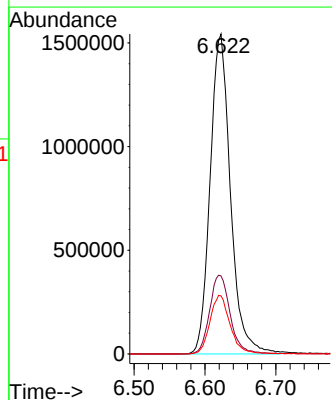
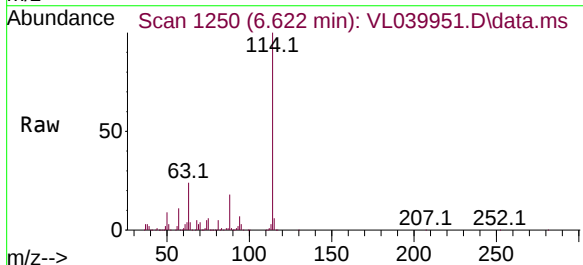
Ion	Ratio	Lower	Upper
97	100		
99	66.4	51.4	77.0
61	51.4	40.7	61.1

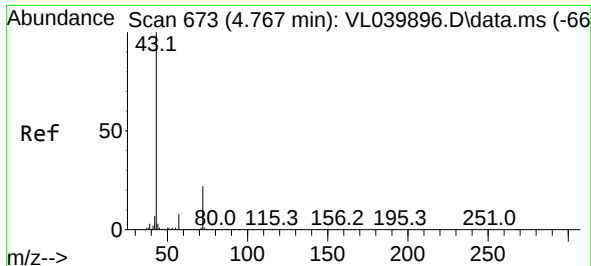


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 6.622 min Scan# 1250
 Delta R.T. -0.013 min
 Lab File: VL039951.D
 Acq: 1 Dec 2022 20:59

Tgt Ion: 114 Resp: 3077638

Ion	Ratio	Lower	Upper
114	100		
63	25.1	21.4	32.0
88	18.2	15.3	22.9

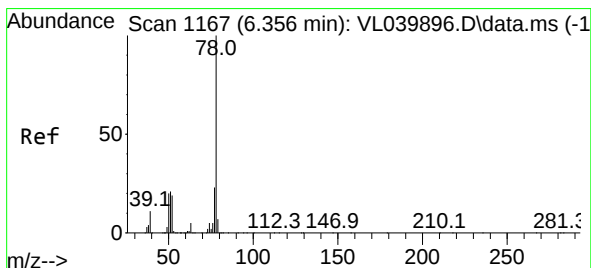
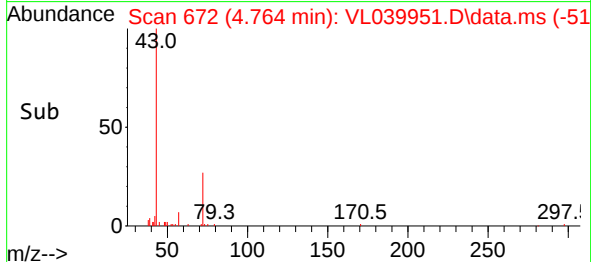
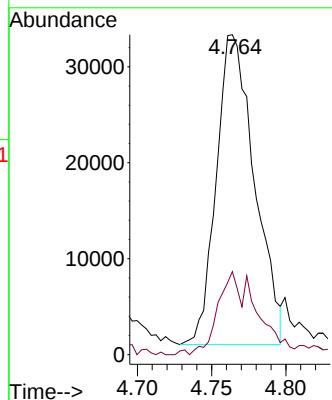
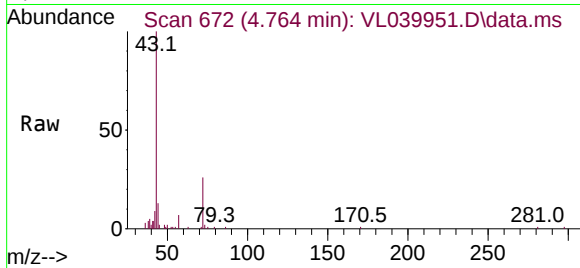




#34
2-Butanone
Concen: 0.393 ppbv
RT: 4.764 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL039951.D
Acq: 1 Dec 2022 20:59

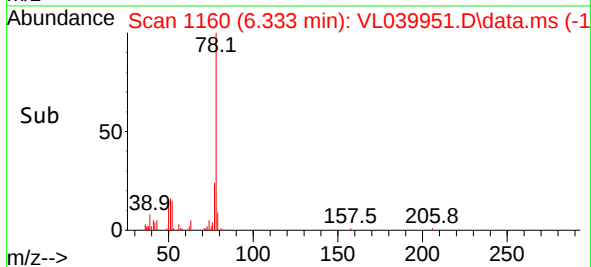
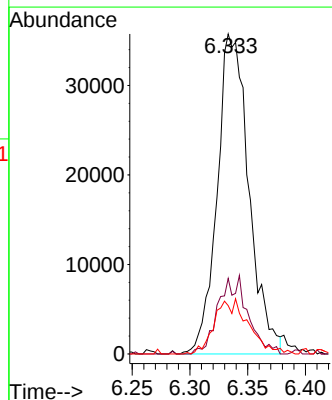
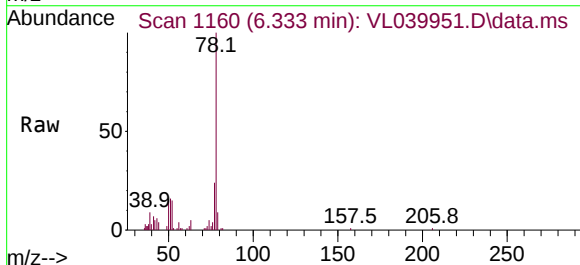
Instrument :
MSVOA_L
ClientSampleId :
H302022-EFFLUENT

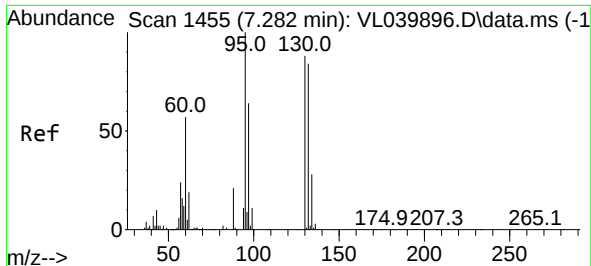
Tgt Ion: 43 Resp: 57904
Ion Ratio Lower Upper
43 100
72 29.3 17.4 26.2#



#36
Benzene
Concen: 0.260 ppbv
RT: 6.333 min Scan# 1160
Delta R.T. -0.019 min
Lab File: VL039951.D
Acq: 1 Dec 2022 20:59

Tgt Ion: 78 Resp: 68085
Ion Ratio Lower Upper
78 100
77 23.6 18.2 27.2
50 15.1 15.8 23.8#

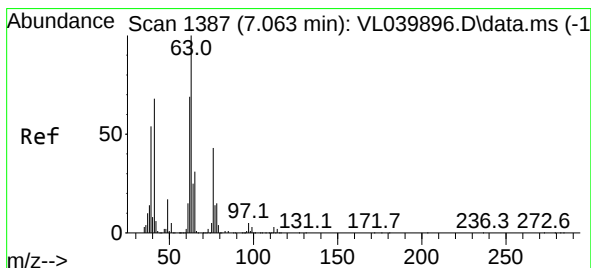
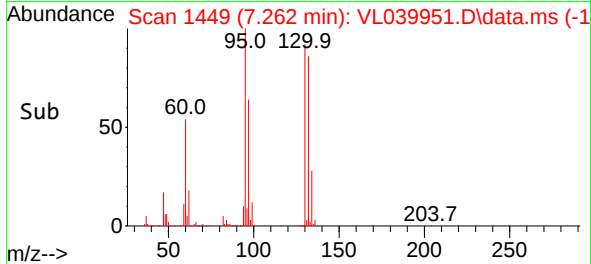
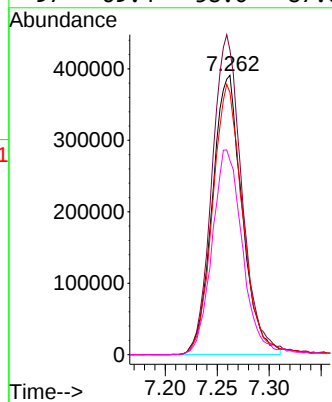
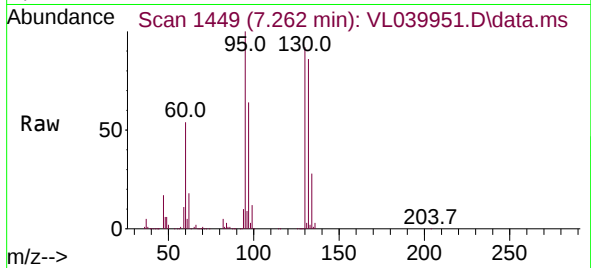




#38
Trichloroethene
Concen: 5.321 ppbv
RT: 7.262 min Scan# 1455
Delta R.T. -0.013 min
Lab File: VL039951.D
Acq: 1 Dec 2022 20:59

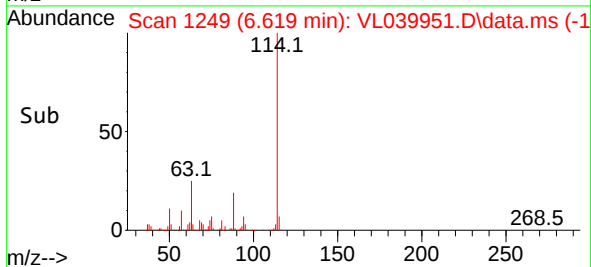
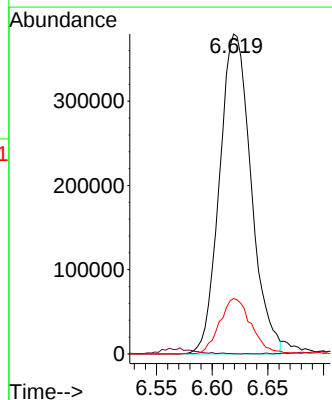
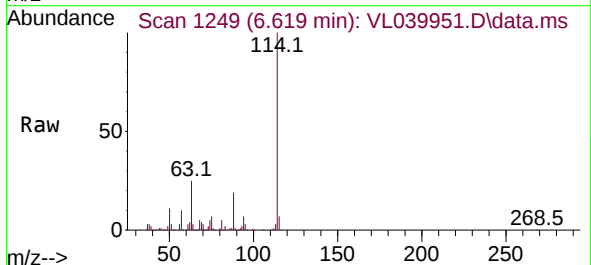
Instrument :
MSVOA_L
ClientSampleId :
H302022-EFFLUENT

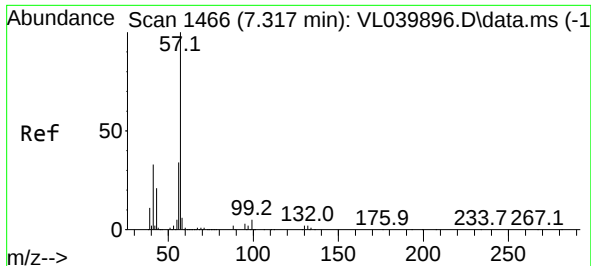
Tgt Ion:130 Resp: 778057
Ion Ratio Lower Upper
130 100
95 109.1 90.6 135.8
132 93.6 76.2 114.4
97 69.4 58.0 87.0



#39
1,2-Dichloropropane
Concen: 7.353 ppbv
RT: 6.619 min Scan# 1249
Delta R.T. -0.437 min
Lab File: VL039951.D
Acq: 1 Dec 2022 20:59

Tgt Ion: 63 Resp: 749431
Ion Ratio Lower Upper
63 100
41 0.0 54.7 82.1#
62 17.4 55.0 82.6#





#44

2,2,4-Trimethylpentane

Concen: 0.150 ppbv

RT: 7.294 min Scan# 1466

Delta R.T. -0.016 min

Lab File: VL039951.D

Acq: 1 Dec 2022 20:59

Instrument :

MSVOA_L

ClientSampleId :

H302022-EFFLUENT

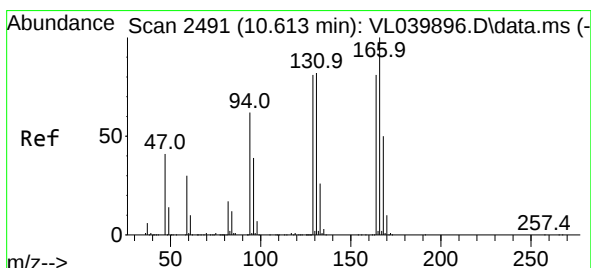
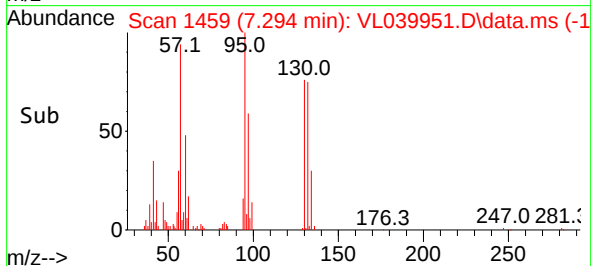
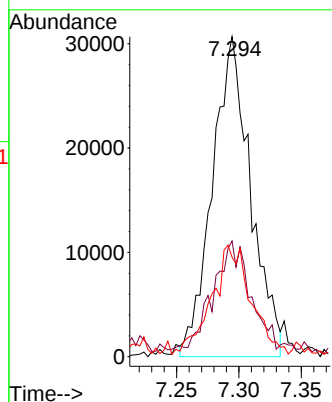
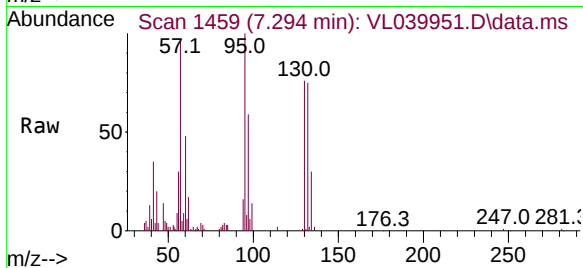
Tgt Ion: 57 Resp: 65659

Ion Ratio Lower Upper

57 100

41 42.4 26.2 39.2#

56 40.0 25.5 38.3#



#52

Tetrachloroethene

Concen: 9.038 ppbv

RT: 10.584 min Scan# 2482

Delta R.T. -0.019 min

Lab File: VL039951.D

Acq: 1 Dec 2022 20:59

Tgt Ion:164 Resp: 884464

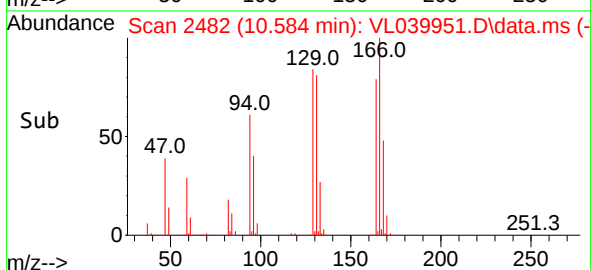
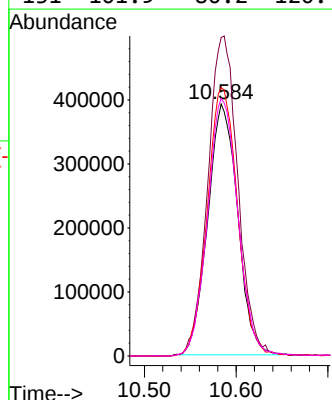
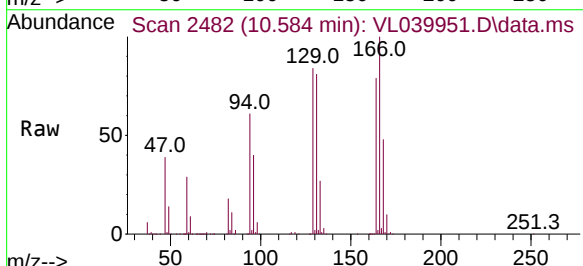
Ion Ratio Lower Upper

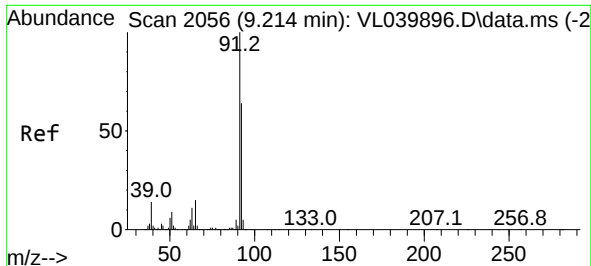
164 100

166 126.3 98.3 147.5

129 106.5 79.7 119.5

131 101.9 80.2 120.4

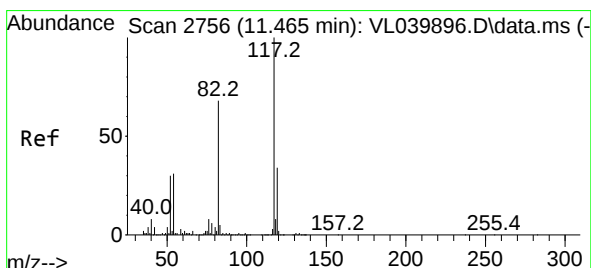
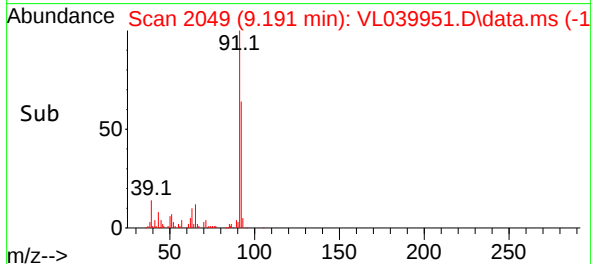
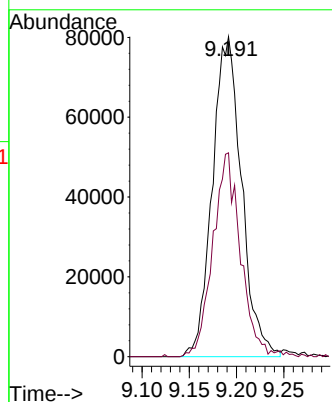
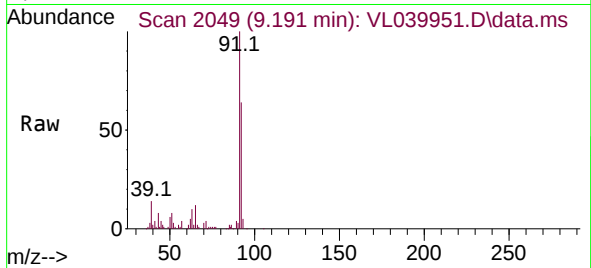




#53
Toluene
Concen: 0.577 ppbv
RT: 9.191 min Scan# 2056
Delta R.T. -0.013 min
Lab File: VL039951.D
Acq: 1 Dec 2022 20:59

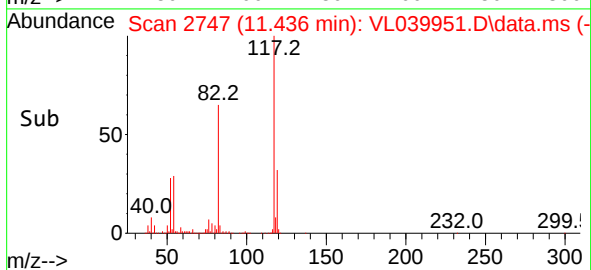
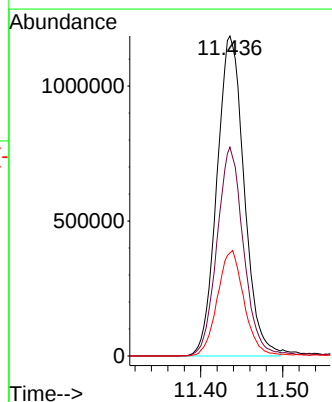
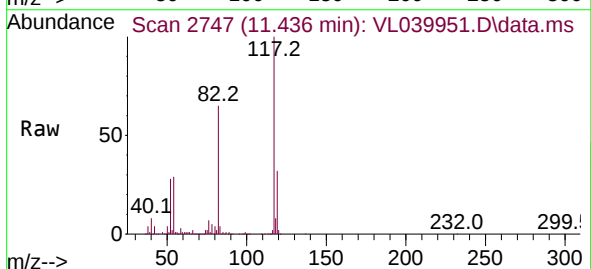
Instrument :
MSVOA_L
ClientSampleId :
H302022-EFFLUENT

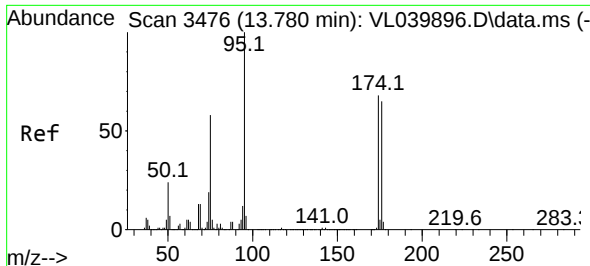
Tgt Ion: 91 Resp: 172031
Ion Ratio Lower Upper
91 100
92 60.6 49.8 74.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.436 min Scan# 2747
Delta R.T. -0.016 min
Lab File: VL039951.D
Acq: 1 Dec 2022 20:59

Tgt Ion: 117 Resp: 2736264
Ion Ratio Lower Upper
117 100
82 64.4 52.3 78.5
119 32.8 25.7 38.5

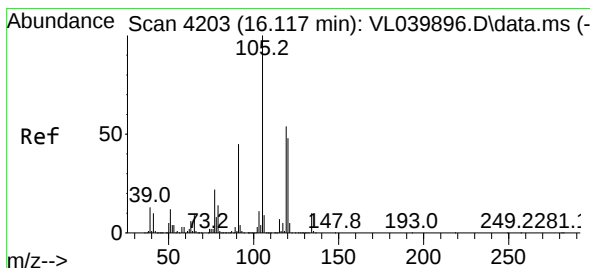
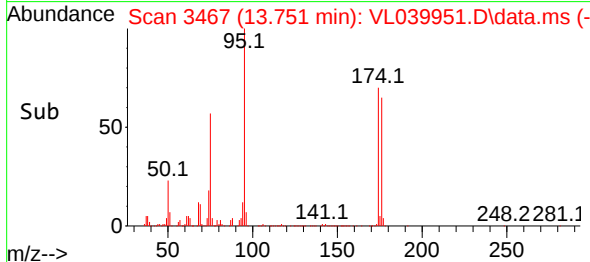
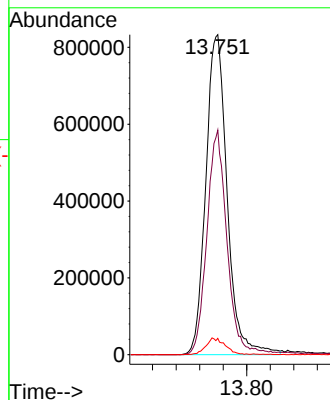
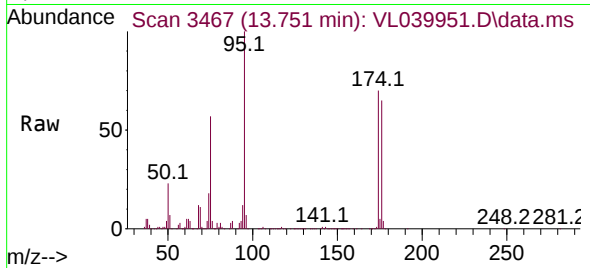




#68
1-Bromo-4-Fluorobenzene
Concen: 10.046 ppbv
RT: 13.751 min Scan# 3476
Delta R.T. -0.013 min
Lab File: VL039951.D
Acq: 1 Dec 2022 20:59

Instrument :
MSVOA_L
ClientSampleId :
H302022-EFFLUENT

Tgt Ion: 95 Resp: 2099570
Ion Ratio Lower Upper
95 100
174 67.2 53.7 80.5
175 4.7 4.0 6.0



#74
1,2,4-Trimethylbenzene
Concen: 0.042 ppbv
RT: 16.079 min Scan# 4191
Delta R.T. -0.019 min
Lab File: VL039951.D
Acq: 1 Dec 2022 20:59

Tgt Ion: 105 Resp: 13707
Ion Ratio Lower Upper
105 100
120 14.1 38.7 58.1#
91 11.4 36.4 54.6#
77 26.3 17.4 26.0#

